

# Emerson DNP3 Protocol Specifications Manual (for FB1000 and FB2000 Series Flow Computers)



## System Training

### Application & Device Safety Considerations

- **Reading these Instructions**

Before operating a device or application, read these instructions carefully and understand their safety implications. In some situations, improper use may result in damage or injury. Keep this manual in a convenient location for future reference. Note that these instructions may not cover all details or variations in equipment or cover every possible situation regarding installation, operation, or maintenance. Should problems arise that are not covered sufficiently in the text, immediately contact Energy and Transportation Solutions (ETS) Customer Support for further information.

- **Protecting Operating Processes**

The failure of a device or application – for whatever reason – may leave an operating process without appropriate protection and could result in possible damage to property or injury to persons. To protect against this, review the need for additional backup equipment or provide alternate means of protection (such as alarm devices, output limiting, fail-safe valves, relief valves, emergency shutoffs, emergency switches, etc.). Contact ETS for additional information.

- **Using Qualified Personnel**

Installation, configuration, and any subsequent modifications to a device or application should only be performed by qualified, suitably trained personnel information.

- **System Training**

A well-trained workforce is critical to the success of your operation. Knowing how to correctly install, configure, program, calibrate, and troubleshoot your Emerson equipment provides your engineers and technicians with the skills and confidence to optimize your investment. ETS offers a variety of ways for your personnel to acquire essential system expertise. Our full-time professional instructors can conduct classroom training at several of our corporate offices, at your site, or even at your regional Emerson office. You can also receive the same quality training via our live, interactive Emerson Virtual Classroom and save on travel costs. For our complete schedule and further information, contact the ETS Training Department at 800-338-8158 or email us at [education@emerson.com](mailto:education@emerson.com).

- **Grounding Equipment**

Ground metal enclosures and exposed metal parts of electrical instruments in accordance with relevant safety standards. For the USA, refer to OSHA rules and regulations as specified in *Design Safety Standards for Electrical Systems*, 29 CFR, Part 1910, Subpart S, dated: May 16, 1981 (OSHA rulings are in agreement with the National Electrical Code). For international locations, refer to IEC 60364-4-41: PROTECTION AGAINST ELECTRIC SHOCK. You must also ground mechanical or pneumatic instruments that include electrically operated devices such as lights, switches, relays, alarms, or chart drives. The chassis (or earth ground) lug provides a safe connection point to a customer-designated ground location for ESD and transient voltage suppression. Do not use the chassis ground lug for signal, common, or return connections. **Do not connect the chassis ground lug directly to a lightning arrester/lightning rod.**

**Important:** Complying with the codes and regulations of authorities having jurisdiction is essential to ensuring personnel safety. The guidelines and recommendations in this manual are intended to meet or exceed applicable codes and regulations. If differences occur between this manual and the codes and regulations of authorities having jurisdiction, those codes and regulations must take precedence.

- **Protecting from Electrostatic Discharge (ESD)**

Any device contains sensitive electronic components which can be damaged by exposure to an ESD voltage. Depending on the magnitude and duration of the ESD, it can result in erratic operation or complete failure of the equipment. Ensure that you correctly care for and handle ESD-sensitive components.

- **Ethernet Connectivity**

This automation device is intended to be used in an Ethernet network which **does not** have public access. The inclusion of this device in a publicly accessible Ethernet-based network is **not recommended**.

- **Returning Equipment**

If you need to return any equipment to ETS, it is your responsibility to ensure that the equipment has been cleaned to safe levels, as defined and/or determined by applicable federal, state and/or local law regulations or codes. You also agree to indemnify ETS and hold ETS harmless from any liability or damage which ETS may incur or suffer due to your failure to ensure device cleanliness.

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# 1. Introduction

This *DNP3 Protocol Specifications Manual (for FB1000 and FB2000 Series Flow Computers)* enables internal Emerson personnel, Emerson customers, and third-party vendors to integrate data to SCADA and other supervisory systems. SCADA vendors can use this manual and the FBxConnect™ configuration software toolset and to configure, send, and receive data to and from the Emerson FB1000 Series and FB2000 Series flow computers.

## 1.1 Scope

This manual covers the implementation of the DNP3 protocol in the FB1000 Series and FB2000 Series flow computers. It should assist SCADA integrators in interfacing DNP3 host-based applications with Emerson FB1000 Series and FB2000 Series flow computers for both configuration and data collection.

## 1.2 Glossary

Following are words, terms, and acronyms pertinent to this manual.

Term	Definition
ALSFC	Application Layer Sub Function Code
Authority	A notified body that can change certain parameters on the flow computer which cannot otherwise be changed by the customer or engineers on site.
CON	A bit in the Application Layer's control byte that specifies whether an Application Layer confirmation is required.
Control Relay Output Block (CROB)	A structured data block appearing in request and response messages associated with actuating on/off type output devices.
CRC	Cyclic Redundancy Check code that is generated according to a specific algorithm and transmitted with the message for the purpose of detecting data corruption during communication via the Physical Layer.
Deprecated	Indicates that a feature or requirement is still permitted although its use is discouraged, and it is not guaranteed to be part of future specification versions. See also <i>obsolete</i> .
DNP	Distributed Network Protocol
DNP3	The third generation of DNP
End device	A device that provides information to another ("host") device.
FIN	Final Data Link frame or final Application Layer fragment in a message
FIR	First Data Link frame or first Application Layer fragment in a message
Fragment	A packet of bytes that is sized to fit into the buffers of the receiving device's Application Layer. Each fragment has an application header and bytes containing Application Layer request, response or confirmation information.
Frame	A packet of octets transmitted from the Data Link Layer in one device to the Data Link Layer in another device over the Physical Layer. Each frame contains a link header, cyclic redundancy check (CRC) octets, and sometimes a segment from the Transport Function.

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Term	Definition
Host device	A device which controls other (“end”) devices.
IED	Intelligent Electronic Device. These are usually physically located close to sensors or actuators that are monitored or controlled.
Input	Refers to values that are measured, read, or generated by the device and are reported by an outstation to a host device.
IP	Internet Protocol
LSB	Least Significant Byte, the byte which represents that part of a value split across two or more bytes.
LMB	Lower Middle Byte
MSB	Most Significant Byte, the byte which represents the part of a value split across two or more bytes.
Octet	A group of eight contiguous digital information bits.
Output	Refers to values in an outstation or lower-level device that are controlled by commands from the host device.
Poll	A poll is a request for data from a host device.
Private	Belonging to or restricted to an individual device not generally known to other devices.
ETS	Energy and Transportation Solutions, a business unit of Emerson Automation Solutions. Energy and Transportation Solutions, a business unit of Emerson Automation Solutions.
Request	An Application Layer message from a host device that asks an end device to perform a specific action. A poll is only one type of request with multiple different types available.
Response	An Application Layer message from the end device that is returned to the host device as the result of a request from the host device.
Route	Describes how multiple flow computers can be connected so that they can be layered on top of one another.
RTU	Remote Terminal Unit. Similar to an IED, RTUs are normally placed in the field close to the sensors or actuators that they monitor or control.
SCADA	Supervisor Control and Data Acquisition. A generic term used to indicate monitoring and controlling devices that are physically located remotely from a centralized computer. Communications are implied between the central location and the outlying devices.
Segment	A packet of bytes that is sized to fit into a Link Layer frame. Each segment contains a transport header and a portion of a fragment from the Application Layer.
SEQ	Sequence number that differentiates subsequent Data Link frames or Application Layer fragments. Sequence numbers associated with unsolicited responses are distinct from sequence numbers used for solicited messages
Static Data	A DNP3 definition for “present” values; the mostly recently measured, computed, or obtained values.
TCP	Transmission Control Protocol
Unsolicited Response	An Application Layer message from a slave device to a master for which no explicit request was received. The request is implied by the act of a master enabling unsolicited reporting from slave devices.



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Term	Definition
UNS	A bit in the Application Layer's control byte that specifies whether a fragment (response and confirmation) pertains to an unsolicited message. When this bit is set the sequence number in the SEQ field refers to the unsolicited sequence number.

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## 1.3 DNP3 Protocol Overview

Emerson FB1000 Series and FB2000 Series flow computers are implemented as DNP3 outstations for communication and configuration with Emerson Field Tools software and SCADA hosts. DNP3 is an open and public protocol used to ensure standards-based interoperability between DNP3 outstations and a SCADA host.

The flow computers support physical communication over Wi-Fi®, Ethernet, and serial communications.

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### Note

DNP3 uses little-endian as the byte order of the messages.

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The flow computers implement the DNP3 level 3 protocol subset.

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## 2. DNP3 Application Layer Definitions

In the Emerson FB1000 and FB2000 Series flow computers DNP3 data points map statically to tags.

### 2.1 DNP3 Point

The DNP3 point is a uniquely identifiable physical/logical entity that applies to inputs and outputs like binaries, analogs, and inputs (such as counters).

Point type is an independent array of points having related characteristics.

### 2.2 Index, Groups, and Variations

Index numbers identify points having the same point type. They are zero-based and the lowest element is always zero.

Groups enable you to classify the data types within a message. Each group number shares a common point type and a common method of data generation and creation. For example, these might be the different group numbers in an analog input point type:

Group	Point Type
Group 30	Current value of the point
Group 31	Frozen value of the point
Group 32	Change of current value event
Group 33	Change of frozen value event

Variations are different encoding formats for the data types within a group. Every group number has an independent set of variations. For example, these might be the variations in group 20:

Variation	Format
Variation 1	32-bit with flag
Variation 2	16-bit with flag
Variation 3	32-bit with flag, delta
Variation 4	16-bit with flag, delta
Variation 5	32-bit without flag
Variation 6	16-bit without flag
Variation 7	32-bit without flag, delta
Variation 8	16-bit without flag, delta

## 2.3 DNP3 Objects

An object is an encoded representation of data from a point. The system formats data according to its group and variation number in order to transport the message.

DNP3 messages may contain multiple objects, each representing the value of a point at a given instant in time or a command to be issued to an output point.

The supported DNP3 objects and groups are:

Name	Group Number
Device Attributes	0
Binary Inputs	1, 2
Binary Outputs	10
Control Relay Output (CROB)	12
Binary Counters	20, 21, 22, 23
Analog Inputs	30, 32
Analog Outputs	40, 41
Time and Data	50
Class	60
Internal Indications	80
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## 2.4 Static, Event, and Class Data

### 2.4.1 Static Data

Static data refers to a point's current or most recently recorded value. For binary input points, "static data" refers to the present on/off condition.

### 2.4.2 Event Data

Events are associations with changes in points, such as state changes, measurement at some threshold, or an analog input changing by more than its defined dead band.

Structured information stored in each event, including:

- Type of event
- Value
- Point index

- Time when event occurred
- Class assignment

## 2.4.3 DNP3 Classes Data

Classes organize events and current values into categories:

- **Class 0** data refers to static data. When a host device requests class 0 data from a flow computer, the end device reports back the most recently measured, computed, or obtained values for the different point types.
- **Class 1, 2, and 3** are event classes. DNP3 does not assign significance to these event classes. Implementations can use different strategies around these classes, such as assigning highest priority events to class 1 and lowest priority events to class 3. Host devices may request events from one or more of these classes.

## 2.5 Secure Authentication Version 5 (SAv5)

With firmware version 2.13.0.88 or newer, the FBx Series devices support Secure Authentication Version 5 (SAv5). SAv5 authenticates the devices with the hosts which significantly improves resistance to outside influences. The FBx Series devices support SAv5 using a pre-shared key (a single key per device) which can be updated using Field Tools.

For implementation details on Secure Authentication Version 5 please contact the DNP3 Users Group ([www.dnp.org/About/DNP-Users-Group](http://www.dnp.org/About/DNP-Users-Group)) For additional details on getting your devices set up with Secure Authentication Version 5, contact your local sales representative.

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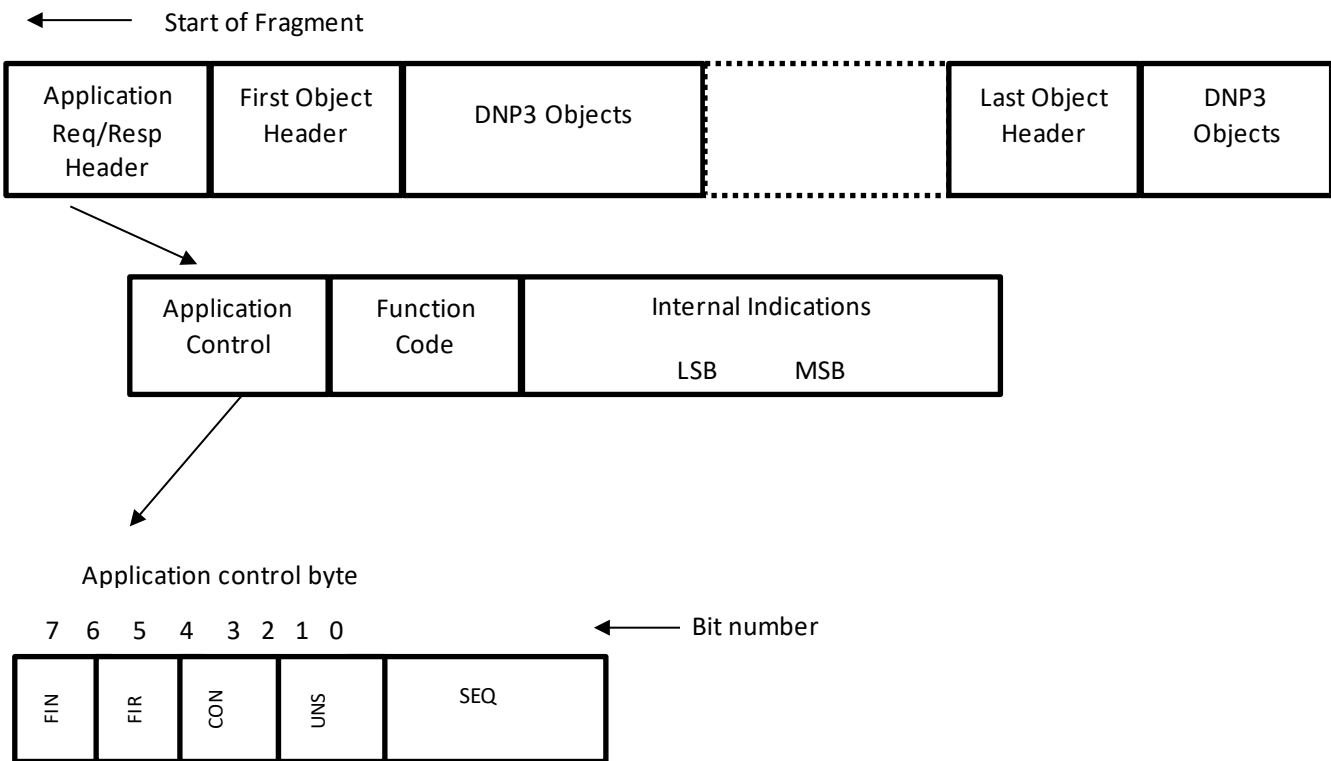
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### 3. DNP3 Application Layer Messaging

Host devices send a request fragment to an end device to execute a command or return data. The end device performs the requested action, generates the appropriate response, and transmits it back to the host device.

The end device may transmit unsolicited response messages to the host. DNP message fragments can contain header, data, and checksum bytes. *Figure 3-1* shows the response message fragment.

**Figure 3-1. DNP3 Request/Response Message Fragment**



Each fragment (request or response) begins with an application header that contains message control information. The application response header contains an additional field called “internal indications.”

#### 3.1 Function Code Table

The function code octet identifies the purpose of the message. Request messages from host devices use function codes in the range of 0 to 128, and response messages from outstations use function codes with values ranging from 129 to 255. The following table describes the function codes.

Requests (Hex)	
0x00	Confirm

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Requests (Hex)	
0x01	Read
0x02	Write
0x03	Select
0x04	Operate
0x05	Direct operate
0x06	Direct operate - no response
0x07	Freeze
0x08	Freeze - no response
0x09	Freeze clear
0x0A	Freeze clear - no response
0x0B	Freeze at time
0x0C	Freeze at time - no response
0x0D	Cold start
0x0E	Warm start
0x0F	Initialize data
0x10	Initialized application
0x11	Start application
0x12	Stop application
0x13	Save configuration
0x14	Enable unsolicited messages
0x15	Disable unsolicited messages
0x16	Assign class
0x17	Delay measurements
0x18	Record measurement
0x19	Open file
0x1A	Close file
0x1B	Delete file
0x1C	Get file information
0x1D	Authenticate file
0x1E	Abort file
0x1F	Activate configuration
0x20	Authenticate request
0x21	Authenticate request - no ack

Requests (Hex)	
0x81	Response
0x82	Unsolicited response



Requests (Hex)	
0x83	Authenticate response

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## 4. DNP3 Data Point List

FB3000 RTUs statically map DNP3 data points to tags.

### 4.1 Data Point Mappings: Default and Custom

The FB3000 provides a default mapping of data points which represents what a typical customer might need. The default mapping is an out-of-the-box solution that accesses information for approximately 24 instances of each type of meter and station, along with a full (7-slot) chassis of IO modules, along with other things (such as components, PIDs, and user data).

Take time to review the information in this chapter against your organization's requirements. If you need DNP3 access to additional device parameters not present in the default map, you can create a custom data point map using FBxConnect (refer to the *DNP3 Mapping* topic in the online help for FBxConnect) that **replaces** the default mapping. While this option would enable you to explicitly define the additional points to access, you **must also include** in the custom map **all** the standard data points present in the default map. Otherwise those data points are **not** available when you change the Active DNP3 Map setting in FBxConnect to **User Defined**.

To obtain a report of the current data point map, issue a series of DNP3 file read requests to the device to read the binary files which define the currently active point mapping for any group. Filenames include:

- */protocol/dnp3/activemap/AnigIn\_Group30\_32.pro*
- */protocol/dnp3/activemap/AnigOut\_Group40\_41.pro*
- */protocol/dnp3/activemap/BinIn\_Group1\_2.pro*
- */protocol/dnp3/activemap/BinOut\_Group10\_12.pro*
- */protocol/dnp3/activemap/Counters\_Group20\_22\_21\_23.pro*
- */protocol/dnp3/activemap/String\_Group110.pro*

### 4.2 Points Limits per Group:

#### 2.5.X.X firmware and older

- Group 1 and 2 - 150
- Groups 10 and 11 - 150
- Groups 20 and 22 - 100
- Groups 30 and 32 - 1950
- Groups 40 and 41 - 4100
- Group 110 - 200

#### 2.7.X.X firmware and newer

- Group 1 and 2 – 10000
  - Groups 10 and 11 - 10000
  - Groups 20 and 22 - 10000
  - Groups 30 and 32 - 10000
  - Groups 40 and 41 - 10000
  - Group 110 – 10000
- 



## Important

This chapter discusses the **default** data point map provided for the FB3000.

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## 4.3 Device Attributes: DNP3 Object Group 0

This group can be read with the next possible variations:

Variation	Variation String Name
209	Secure Authentication Version
210	Number of security statistics per association
211	ID of support for user-specific attributes
212	Number of Master-Defined Data Set Prototypes
213	Number of Outstation-Defined Data Set Prototypes
214	Number of Master-Defined Data Sets
215	Number of Outstation-Defined Data Sets
216	Max number of binary outputs from object group 12 per request
217	Local timing accuracy
218	Duration of time accuracy (following a time synchronization)
219	Analog output events supported
220	Maximum analog output index
221	Number of analog output points
222	Binary output events supported
223	Maximum binary output index
224	Number of binary output points
225	Frozen counter events supported
226	Frozen counts supported
227	Counter events supported
228	Maximum counter index
229	Number of counter points

Variation	Variation String Name
230	Frozen analog inputs supported
231	Analog input events supported
232	Maximum analog input index
233	Number of analog input points
234	Double-bit binary input events supported
235	Maximum double-bit binary input index
236	Number of double-bit binary input points
237	Binary input events supported
238	Maximum binary input index
239	Number of binary input points
240	Maximum transmit fragment size
241	Maximum receive fragment size
242	Device manufacture's software version string
243	Device manufacture's hardware version string
245	User-assigned location name or code string
246	User-assigned ID code/number string
247	User-assigned name string for the outstation
248	Device serial number string
249	DNP subset level and conformance
250	Device manufacture's product name and model
252	Device manufacture's name string
254	Non-specific all attributes value request
255	List of all attribute variations

## 4.4 Binary Input: DNP3 Object Groups 1 (Static) & 2 (Events)

### 4.4.1 DNP3 Object Group 1: Binary Input (Static)

This group can be read with the following variations:

- **Variation 1:** Package format having single bit binary input state without status flags
- **Variation 2:** Each DNP3 point is returned with a single byte having status flags indicating the point status (such as online/offline, comm lost, over range, etc.)

## 4.4.2 DNP3 Object Group 2: Binary Input (Events)

This group can be read with the following variations:

- **Variation 1:** A single byte for reporting state of input and status flags without time
- **Variation 2:** A single byte for reporting state of input and status flags with absolute time when the event occurred.
- **Variation 3:** A single byte for reporting state of input and status flags with relative time. A preceding common time of occurrence (CTO) object, group 51, establishes the basis for relative time.

Point Index	Tag Mapped	Name for State when value = 0	Name for State when value = 1	Default Class Assigned
0	System Pwr_1.SRAM_BATT_STATUS	Normal	Failed	Class_1
1	Module_1.INSTALLED	No	Yes	Class_3
2	Module_2.INSTALLED	No	Yes	Class_3
3	Module_3.INSTALLED	No	Yes	Class_3
4	Module_4.INSTALLED	No	Yes	Class_3
5	Module_5.INSTALLED	No	Yes	Class_3
6	Module_6.INSTALLED	No	Yes	Class_3
7	Module_7.INSTALLED	No	Yes	Class_3
8	Module_8.INSTALLED	No	Yes	Class_3
9	DI_2-1.SELECTED	OFF	ON	Class_1
10	DI_2-2.SELECTED	OFF	ON	Class_1
11	DI_2-3.SELECTED	OFF	ON	Class_1
12	DI_2-4.SELECTED	OFF	ON	Class_1
13	DI_2-5.SELECTED	OFF	ON	Class_1
14	DI_2-6.SELECTED	OFF	ON	Class_1
15	DI_2-7.SELECTED	OFF	ON	Class_1
16	DI_2-8.SELECTED	OFF	ON	Class_1
17	DI_3-1.SELECTED	OFF	ON	Class_1
18	DI_3-2.SELECTED	OFF	ON	Class_1
19	DI_3-3.SELECTED	OFF	ON	Class_1
20	DI_3-4.SELECTED	OFF	ON	Class_1
21	DI_3-5.SELECTED	OFF	ON	Class_1
22	DI_3-6.SELECTED	OFF	ON	Class_1
23	DI_3-7.SELECTED	OFF	ON	Class_1
24	DI_3-8.SELECTED	OFF	ON	Class_1

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Point Index	Tag Mapped	Name for State when value = 0	Name for State when value = 1	Default Class Assigned
25	DI_4-1.SELECTED	OFF	ON	Class_1
26	DI_4-2.SELECTED	OFF	ON	Class_1
27	DI_4-3.SELECTED	OFF	ON	Class_1
28	DI_4-4.SELECTED	OFF	ON	Class_1
29	DI_4-5.SELECTED	OFF	ON	Class_1
30	DI_4-6.SELECTED	OFF	ON	Class_1
31	DI_4-7.SELECTED	OFF	ON	Class_1
32	DI_4-8.SELECTED	OFF	ON	Class_1
33	DI_5-1.SELECTED	OFF	ON	Class_1
34	DI_5-2.SELECTED	OFF	ON	Class_1
35	DI_5-3.SELECTED	OFF	ON	Class_1
36	DI_5-4.SELECTED	OFF	ON	Class_1
37	DI_5-5.SELECTED	OFF	ON	Class_1
38	DI_5-6.SELECTED	OFF	ON	Class_1
39	DI_5-7.SELECTED	OFF	ON	Class_1
40	DI_5-8.SELECTED	OFF	ON	Class_1
41	DI_6-1.SELECTED	OFF	ON	Class_1
42	DI_6-2.SELECTED	OFF	ON	Class_1
43	DI_6-3.SELECTED	OFF	ON	Class_1
44	DI_6-4.SELECTED	OFF	ON	Class_1
45	DI_6-5.SELECTED	OFF	ON	Class_1
46	DI_6-6.SELECTED	OFF	ON	Class_1
47	DI_6-7.SELECTED	OFF	ON	Class_1
48	DI_6-8.SELECTED	OFF	ON	Class_1
49	DI_7-1.SELECTED	OFF	ON	Class_1
50	DI_7-2.SELECTED	OFF	ON	Class_1
51	DI_7-3.SELECTED	OFF	ON	Class_1
52	DI_7-4.SELECTED	OFF	ON	Class_1
53	DI_7-5.SELECTED	OFF	ON	Class_1
54	DI_7-6.SELECTED	OFF	ON	Class_1
55	DI_7-7.SELECTED	OFF	ON	Class_1
56	DI_7-8.SELECTED	OFF	ON	Class_1

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57	DI_8-1.SELECTED	OFF	ON	Class_1
58	DI_8-2.SELECTED	OFF	ON	Class_1
59	DI_8-3.SELECTED	OFF	ON	Class_1
60	DI_8-4.SELECTED	OFF	ON	Class_1
61	DI_8-5.SELECTED	OFF	ON	Class_1
62	DI_8-6.SELECTED	OFF	ON	Class_1
63	DI_8-7.SELECTED	OFF	ON	Class_1
64	DI_8-8.SELECTED	OFF	ON	Class_1
65	DO_2-1.SELECTED	OFF	ON	Class_1
66	DO_2-2.SELECTED	OFF	ON	Class_1
67	DO_3-1.SELECTED	OFF	ON	Class_1
68	DO_3-2.SELECTED	OFF	ON	Class_1
69	DO_4-1.SELECTED	OFF	ON	Class_1
70	DO_4-2.SELECTED	OFF	ON	Class_1
71	DO_5-1.SELECTED	OFF	ON	Class_1
72	DO_5-2.SELECTED	OFF	ON	Class_1
73	DO_6-1.SELECTED	OFF	ON	Class_1
74	DO_6-2.SELECTED	OFF	ON	Class_1
75	DO_7-1.SELECTED	OFF	ON	Class_1
76	DO_7-2.SELECTED	OFF	ON	Class_1
77	DO_8-1.SELECTED	OFF	ON	Class_1
78	DO_8-2.SELECTED	OFF	ON	Class_1
79	PID_1.OUTPUT_MODE	Manual	Auto	Class_3
80	PID_2.OUTPUT_MODE	Manual	Auto	Class_3
81	PID_3.OUTPUT_MODE	Manual	Auto	Class_3
82	PID_4.OUTPUT_MODE	Manual	Auto	Class_3
83	PID_5.OUTPUT_MODE	Manual	Auto	Class_3
84	PID_6.OUTPUT_MODE	Manual	Auto	Class_3
85	PID_7.OUTPUT_MODE	Manual	Auto	Class_3
86	PID_8.OUTPUT_MODE	Manual	Auto	Class_3
87	PID_9.OUTPUT_MODE	Manual	Auto	Class_3
88	PID_10.OUTPUT_MODE	Manual	Auto	Class_3



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89	PID_11.OUTPUT_MODE	Manual	Auto	Class_3
90	PID_12.OUTPUT_MODE	Manual	Auto	Class_3
91	PID_13.OUTPUT_MODE	Manual	Auto	Class_3
92	PID_14.OUTPUT_MODE	Manual	Auto	Class_3
93	PID_15.OUTPUT_MODE	Manual	Auto	Class_3
94	PID_16.OUTPUT_MODE	Manual	Auto	Class_3
95	PID_17.OUTPUT_MODE	Manual	Auto	Class_3
96	PID_18.OUTPUT_MODE	Manual	Auto	Class_3
97	PID_19.OUTPUT_MODE	Manual	Auto	Class_3
98	PID_20.OUTPUT_MODE	Manual	Auto	Class_3
99	PID_21.OUTPUT_MODE	Manual	Auto	Class_3
100	PID_22.OUTPUT_MODE	Manual	Auto	Class_3
101	PID_23.OUTPUT_MODE	Manual	Auto	Class_3
102	PID_24.OUTPUT_MODE	Manual	Auto	Class_3

## 4.5 Binary Output: DNP3 Object Groups 10 (Static) & 12 (Commands)

### 4.5.1 DNP3 Object Group 10: Binary Output Static

This group can be read with the following variations:

- **Variation 1:** Package format having single bit binary input state without status flags
- **Variation 2:** Each DNP3 point is returned with a single byte having status flags indicating the point status (such as online/offline, comm lost, over range, etc.)

### 4.5.2 DNP3 Object Group 12: Binary Output Command or Control Relay Output Block (CROB)

This group can be read with the following variations:

- **Variation 1:** Control Relay Output Block
- **Variation 2:** Pattern Control Block (PCB); this variation is not supported.
- **Variation 3:** Pattern Control Mask (PCM); this variation is not supported.

Point Index	Tag Mapped	Name for State when value = 0	Name for State when value = 1	Default Class Assigned
0	PI_2-1.USER_MODE	Live	Override	Class_3
1	PI_2-2.USER_MODE	Live	Override	Class_3
2	PI_2-3.USER_MODE	Live	Override	Class_3
3	PI_2-4.USER_MODE	Live	Override	Class_3
4	PI_2-5.USER_MODE	Live	Override	Class_3
5	PI_2-6.USER_MODE	Live	Override	Class_3
6	PI_2-7.USER_MODE	Live	Override	Class_3
7	PI_2-8.USER_MODE	Live	Override	Class_3
8	PI_3-1.USER_MODE	Live	Override	Class_3
9	PI_3-2.USER_MODE	Live	Override	Class_3
10	PI_3-3.USER_MODE	Live	Override	Class_3
11	PI_3-4.USER_MODE	Live	Override	Class_3
12	PI_3-5.USER_MODE	Live	Override	Class_3
13	PI_3-6.USER_MODE	Live	Override	Class_3
14	PI_3-7.USER_MODE	Live	Override	Class_3
15	PI_3-8.USER_MODE	Live	Override	Class_3
16	PI_4-1.USER_MODE	Live	Override	Class_3
17	PI_4-2.USER_MODE	Live	Override	Class_3

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18	PI_4-3.USER_MODE	Live	Override	Class_3
19	PI_4-4.USER_MODE	Live	Override	Class_3
20	PI_4-5.USER_MODE	Live	Override	Class_3
21	PI_4-6.USER_MODE	Live	Override	Class_3
22	PI_4-7.USER_MODE	Live	Override	Class_3
23	PI_4-8.USER_MODE	Live	Override	Class_3
24	PI_5-1.USER_MODE	Live	Override	Class_3
25	PI_5-2.USER_MODE	Live	Override	Class_3
26	PI_5-3.USER_MODE	Live	Override	Class_3
27	PI_5-4.USER_MODE	Live	Override	Class_3
28	PI_5-5.USER_MODE	Live	Override	Class_3
29	PI_5-6.USER_MODE	Live	Override	Class_3
30	PI_5-7.USER_MODE	Live	Override	Class_3
31	PI_5-8.USER_MODE	Live	Override	Class_3
32	PI_6-1.USER_MODE	Live	Override	Class_3
33	PI_6-2.USER_MODE	Live	Override	Class_3
34	PI_6-3.USER_MODE	Live	Override	Class_3
35	PI_6-4.USER_MODE	Live	Override	Class_3
36	PI_6-5.USER_MODE	Live	Override	Class_3
37	PI_6-6.USER_MODE	Live	Override	Class_3
38	PI_6-7.USER_MODE	Live	Override	Class_3
39	PI_6-8.USER_MODE	Live	Override	Class_3
40	PI_7-1.USER_MODE	Live	Override	Class_3
41	PI_7-2.USER_MODE	Live	Override	Class_3
42	PI_7-3.USER_MODE	Live	Override	Class_3
43	PI_7-4.USER_MODE	Live	Override	Class_3
44	PI_7-5.USER_MODE	Live	Override	Class_3
45	PI_7-6.USER_MODE	Live	Override	Class_3
46	PI_7-7.USER_MODE	Live	Override	Class_3
47	PI_7-8.USER_MODE	Live	Override	Class_3
48	PI_8-1.USER_MODE	Live	Override	Class_3
49	PI_8-2.USER_MODE	Live	Override	Class_3

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50	PI_8-3.USER_MODE	Live	Override	Class_3
51	PI_8-4.USER_MODE	Live	Override	Class_3
52	PI_8-5.USER_MODE	Live	Override	Class_3
53	PI_8-6.USER_MODE	Live	Override	Class_3
54	PI_8-7.USER_MODE	Live	Override	Class_3
55	PI_8-8.USER_MODE	Live	Override	Class_3
56	DO_2-1.OVRD	Live	Override	Class_1
57	DO_2.2.OVRD	Live	Override	Class_1
58	DO_3-1.OVRD	Live	Override	Class_1
59	DO_3.2.OVRD	Live	Override	Class_1
60	DO_4-1.OVRD	Live	Override	Class_1
61	DO_4.2.OVRD	Live	Override	Class_1
62	DO_5-1.OVRD	Live	Override	Class_1
63	DO_5.2.OVRD	Live	Override	Class_1
64	DO_6-1.OVRD	Live	Override	Class_1
65	DO_6.2.OVRD	Live	Override	Class_1
66	DO_7-1.OVRD	Live	Override	Class_1
67	DO_7.2.OVRD	Live	Override	Class_1
68	DO_8-1.OVRD	Live	Override	Class_1
69	DO_8.2.OVRD	Live	Override	Class_1
70	PID_1.PID_ENABLE	Disable	Enable	None
71	PID_1.OUTPUT_TYPE	Analog	Discrete	None
72	PID_2.PID_ENABLE	Disable	Enable	None
73	PID_2.OUTPUT_TYPE	Analog	Discrete	None
74	PID_3.PID_ENABLE	Disable	Enable	None
75	PID_3.OUTPUT_TYPE	Analog	Discrete	None
76	PID_4.PID_ENABLE	Disable	Enable	None
77	PID_4.OUTPUT_TYPE	Analog	Discrete	None
78	PID_5.PID_ENABLE	Disable	Enable	None
79	PID_5.OUTPUT_TYPE	Analog	Discrete	None
80	PID_6.PID_ENABLE	Disable	Enable	None
81	PID_6.OUTPUT_TYPE	Analog	Discrete	None

Point Index	Tag Mapped	Name for State when value = 0	Name for State when value = 1	Default Class Assigned
82	PID_7.PID_ENABLE	Disable	Enable	None
83	PID_7.OUTPUT_TYPE	Analog	Discrete	None
84	PID_8.PID_ENABLE	Disable	Enable	None
85	PID_8.OUTPUT_TYPE	Analog	Discrete	None
86	PID_9.PID_ENABLE	Disable	Enable	None
87	PID_9.OUTPUT_TYPE	Analog	Discrete	None
88	PID_10.PID_ENABLE	Disable	Enable	None
89	PID_10.OUTPUT_TYPE	Analog	Discrete	None
90	PID_11.PID_ENABLE	Disable	Enable	None
91	PID_11.OUTPUT_TYPE	Analog	Discrete	None
92	PID_12.PID_ENABLE	Disable	Enable	None
93	PID_12.OUTPUT_TYPE	Analog	Discrete	None
94	PID_13.PID_ENABLE	Disable	Enable	None
95	PID_13.OUTPUT_TYPE	Analog	Discrete	None
96	PID_14.PID_ENABLE	Disable	Enable	None
97	PID_14.OUTPUT_TYPE	Analog	Discrete	None
98	PID_15.PID_ENABLE	Disable	Enable	None
99	PID_15.OUTPUT_TYPE	Analog	Discrete	None
100	PID_16.PID_ENABLE	Disable	Enable	None
101	PID_16.OUTPUT_TYPE	Analog	Discrete	None
102	PID_17.PID_ENABLE	Disable	Enable	None
103	PID_17.OUTPUT_TYPE	Analog	Discrete	None
104	PID_18.PID_ENABLE	Disable	Enable	None
105	PID_18.OUTPUT_TYPE	Analog	Discrete	None
106	PID_19.PID_ENABLE	Disable	Enable	None
107	PID_19.OUTPUT_TYPE	Analog	Discrete	None
108	PID_20.PID_ENABLE	Disable	Enable	None
109	PID_20.OUTPUT_TYPE	Analog	Discrete	None
110	PID_21.PID_ENABLE	Disable	Enable	None
111	PID_21.OUTPUT_TYPE	Analog	Discrete	None
112	PID_22.PID_ENABLE	Disable	Enable	None
113	PID_22.OUTPUT_TYPE	Analog	Discrete	None

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Point Index	Tag Mapped	Name for State when value = 0	Name for State when value = 1	Default Class Assigned
114	PID_23.PID_ENABLE	Disable	Enable	None
115	PID_23.OUTPUT_TYPE	Analog	Discrete	None
116	PID_24.PID_ENABLE	Disable	Enable	None
117	PID_24.OUTPUT_TYPE	Analog	Discrete	None
118	Components_1.APPLY_COMP	NoAction	AcceptComp	None
119	Components_2.APPLY_COMP	NoAction	AcceptComp	None
120	Components_3.APPLY_COMP	NoAction	AcceptComp	None
121	Components_4.APPLY_COMP	NoAction	AcceptComp	None
122	Components_5.APPLY_COMP	NoAction	AcceptComp	None
123	Components_6.APPLY_COMP	NoAction	AcceptComp	None
124	Components_7.APPLY_COMP	NoAction	AcceptComp	None
125	Components_8.APPLY_COMP	NoAction	AcceptComp	None
126	Components_9.APPLY_COMP	NoAction	AcceptComp	None
127	Components_10.APPLY_COMP	NoAction	AcceptComp	None
128	Components_11.APPLY_COMP	NoAction	AcceptComp	None
129	Components_12.APPLY_COMP	NoAction	AcceptComp	None
130	Components_13.APPLY_COMP	NoAction	AcceptComp	None
131	Components_14.APPLY_COMP	NoAction	AcceptComp	None
132	Components_15.APPLY_COMP	NoAction	AcceptComp	None
133	Components_16.APPLY_COMP	NoAction	AcceptComp	None
134	Components_17.APPLY_COMP	NoAction	AcceptComp	None
135	Components_18.APPLY_COMP	NoAction	AcceptComp	None
136	Components_19.APPLY_COMP	NoAction	AcceptComp	None
137	Components_20.APPLY_COMP	NoAction	AcceptComp	None
138	Components_21.APPLY_COMP	NoAction	AcceptComp	None
139	Components_22.APPLY_COMP	NoAction	AcceptComp	None
140	Components_23.APPLY_COMP	NoAction	AcceptComp	None
141	Components_24.APPLY_COMP	NoAction	AcceptComp	None

## 4.6 Binary Counter: DNP3 Object Groups 20 (Static) & 22 (Events)

### 4.6.1 DNP3 Object Group 20: Counters (Static)

This group can be read with the following variations:

- **Variation 1:** 32-bit with flag
- **Variation 2:** 16-bit with flag
- **Variation 3:** 32-bit with flag, delta
- **Variation 4:** 16-bit with flag, delta
- **Variation 5:** 32-bit without flag
- **Variation 6:** 16-bit without flag
- **Variation 7:** 32-bit without flag, delta
- **Variation 8:** 16-bit without flag, delta

### 4.6.2 DNP3 Object Group 22: Counters (Events)

This group can be read with the following variations:

- **Variation 1:** 32-bit with flag
- **Variation 2:** 16-bit with flag
- **Variation 3:** 32-bit with flag, delta
- **Variation 4:** 16-bit with flag, delta
- **Variation 5:** 32-bit with flag and time
- **Variation 6:** 16-bit with flag and time
- **Variation 7:** 32-bit with flag and time, delta
- **Variation 8:** 16-bit with flag and time, delta

Point Index	Tag Mapped	Default Class	Group 20 Default Variation	Group 22 Default Variation
0	PI_2-1.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
1	PI_2-2.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
2	PI_2-3.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
3	PI_2-4.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
4	PI_2-5.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
5	PI_2-6.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
6	PI_2-7.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
7	PI_2-8.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
8	PI_3-1.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5

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Point Index	Tag Mapped	Default Class	Group 20 Default Variation	Group 22 Default Variation
9	PI_3-2.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
10	PI_3-3.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
11	PI_3-4.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
12	PI_3-5.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
13	PI_3-6.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
14	PI_3-7.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
15	PI_3-8.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
16	PI_4-1.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
17	PI_4-2.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
18	PI_4-3.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
19	PI_4-4.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
20	PI_4-5.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
21	PI_4-6.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
22	PI_4-7.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
23	PI_4-8.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
24	PI_5-1.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
25	PI_5-2.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
26	PI_5-3.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
27	PI_5-4.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
28	PI_5-5.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
29	PI_5-6.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
30	PI_5-7.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
31	PI_5-8.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
32	PI_6-1.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
33	PI_6-2.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
34	PI_6-3.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
35	PI_6-4.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
36	PI_6-5.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
37	PI_6-6.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
38	PI_6-7.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
39	PI_6-8.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5



Point Index	Tag Mapped	Default Class	Group 20 Default Variation	Group 22 Default Variation
40	PI_7-1.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
41	PI_7-2.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
42	PI_7-3.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
43	PI_7-4.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
44	PI_7-5.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
45	PI_7-6.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
46	PI_7-7.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
47	PI_7-8.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
48	PI_8-1.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
49	PI_8-2.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
50	PI_8-3.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
51	PI_8-4.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
52	PI_8-5.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
53	PI_8-6.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
54	PI_8-7.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5
55	PI_8-8.PULSE_DAY_ACCUM_32	Class_3	Variation 1	Variation 5

## 4.7 Analog Input: DNP3 Object Groups 30 (Static) & 32 (Events)

### 4.7.1 DNP3 Object Group 30: Analog Input (Static)

This group can be read with the following variations:

- **Variation 1:** 32-bit with flag
- **Variation 2:** 16-bit with flag
- **Variation 3:** 32-bit without flag
- **Variation 4:** 16-bit without flag
- **Variation 5:** Single-precision floating point with flag
- **Variation 6:** Double-precision floating point with flat

### 4.7.2 DNP3 Object Group 32: Analog Input (Events)

This group can be read with the following variations:

- **Variation 1:** 32-bit with flag
- **Variation 2:** 16-bit with flag
- **Variation 3:** 32-bit without flag
- **Variation 4:** 16-bit without flag
- **Variation 5:** Single-precision floating point without time
- **Variation 6:** Double-precision floating point without time
- **Variation 7:** Single-precision floating point with time
- **Variation 8:** Double-precision floating point with time

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
0	System_1.PROD.TYPE	None	Variation 2	Variation 4
1	System_1.MPU_LOAD	None	Variation 5	Variation 7
2	System_1.MAX_PID	Class_3	Variation 1	Variation 3
3	System_1.MAX.STN	Class_3	Variation 1	Variation 3
4	System_1.MAX_STRM	Class_3	Variation 1	Variation 3
5	System_1.NUM_ALM	Class_2	Variation 1	Variation 3
6	System_1.NUM_EVT	Class_2	Variation 1	Variation 3
7	System_1.NUM_WM_EVT	Class_2	Variation 1	Variation 3
8	System Pwr_1.EXT_VOLT_VAL	Class_1	Variation 5	Variation 7
9	System Pwr_1.EXT_VOLT_ALM.PROCESS_ALM	Class_1	Variation 2	Variation 4
10	Clock_1.TIME	Class_2	Variation 6	Variation 8

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
11	Clock_1.YEAR	Class_2	Variation 2	Variation 4
12	Clock_1.MONTH	Class_2	Variation 2	Variation 4
13	Clock_1.DAY	Class_2	Variation 2	Variation 4
14	Clock_1.HOUR	Class_2	Variation 2	Variation 4
15	Clock_1.SECOND	Class_2	Variation 2	Variation 4
16	Clock_1.MINUTE	Class_2	Variation 2	Variation 4
17	Mtr Setup_1.MAX_MTRS	Class_3	Variation 2	Variation 4
18	Module_1.MOD_TYPE	None	Variation 2	Variation 4
19	Module_1.MOD_MODE	Class_3	Variation 2	Variation 4
20	Module_1.PM_STATUS	Class_1	Variation 2	Variation 4
21	Module_2.MOD_TYPE	None	Variation 2	Variation 4
22	Module_2.MOD_MODE	Class_3	Variation 2	Variation 4
23	Module_2.PM_STATUS	Class_1	Variation 2	Variation 4
24	Module_3.MOD_TYPE	None	Variation 2	Variation 4
25	Module_3.MOD_MODE	Class_3	Variation 2	Variation 4
26	Module_3.PM_STATUS	Class_1	Variation 2	Variation 4
27	Module_4.MOD_TYPE	None	Variation 2	Variation 4
28	Module_4.MOD_MODE	Class_3	Variation 2	Variation 4
29	Module_4.PM_STATUS	Class_1	Variation 2	Variation 4
30	Module_5.MOD_TYPE	None	Variation 2	Variation 4
31	Module_5.MOD_MODE	Class_3	Variation 2	Variation 4
32	Module_5.PM_STATUS	Class_1	Variation 2	Variation 4
33	Module_6.MOD_TYPE	None	Variation 2	Variation 4
34	Module_6.MOD_MODE	Class_3	Variation 2	Variation 4
35	Module_6.PM_STATUS	Class_1	Variation 2	Variation 4
36	Module_7.MOD_TYPE	None	Variation 2	Variation 4
37	Module_7.MOD_MODE	Class_3	Variation 2	Variation 4
38	Module_7.PM_STATUS	Class_1	Variation 2	Variation 4
39	Module_8.MOD_TYPE	None	Variation 2	Variation 4
40	Module_8.MOD_MODE	Class_3	Variation 2	Variation 4
41	Module_8.PM_STATUS	Class_1	Variation 2	Variation 4

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Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
42	DP Mtr_1.DP_INUSE	Class_2	Variation 6	Variation 8
43	DP Mtr_1.PF_INUSE	Class_2	Variation 6	Variation 8
44	DP Mtr_1.TF_INUSE	Class_2	Variation 6	Variation 8
45	DP Mtr_1.IV_SEL	Class_3	Variation 6	Variation 8
46	DP Mtr_1.IMV_SEL	Class_3	Variation 6	Variation 8
47	DP Mtr_1.SVOL_RATE	Class_2	Variation 6	Variation 8
48	DP Mtr_1.MASS_RATE	Class_2	Variation 6	Variation 8
49	DP Mtr_1.ENERGY_RATE	Class_2	Variation 6	Variation 8
50	DP Mtr_2.DP_INUSE	Class_2	Variation 6	Variation 8
51	DP Mtr_2.PF_INUSE	Class_2	Variation 6	Variation 8
52	DP Mtr_2.TF_INUSE	Class_2	Variation 6	Variation 8
53	DP Mtr_2.IV_SEL	Class_3	Variation 6	Variation 8
54	DP Mtr_2.IMV_SEL	Class_3	Variation 6	Variation 8
55	DP Mtr_2.SVOL_RATE	Class_2	Variation 6	Variation 8
56	DP Mtr_2.MASS_RATE	Class_2	Variation 6	Variation 8
57	DP Mtr_2.ENERGY_RATE	Class_2	Variation 6	Variation 8
58	DP Mtr_3.DP_INUSE	Class_2	Variation 6	Variation 8
59	DP Mtr_3.PF_INUSE	Class_2	Variation 6	Variation 8
60	DP Mtr_3.TF_INUSE	Class_2	Variation 6	Variation 8
61	DP Mtr_3.IV_SEL	Class_3	Variation 6	Variation 8
62	DP Mtr_3.IMV_SEL	Class_3	Variation 6	Variation 8
63	DP Mtr_3.SVOL_RATE	Class_2	Variation 6	Variation 8
64	DP Mtr_3.MASS_RATE	Class_2	Variation 6	Variation 8
65	DP Mtr_3.ENERGY_RATE	Class_2	Variation 6	Variation 8
66	DP Mtr_4.DP_INUSE	Class_2	Variation 6	Variation 8
67	DP Mtr_4.PF_INUSE	Class_2	Variation 6	Variation 8
68	DP Mtr_4.TF_INUSE	Class_2	Variation 6	Variation 8
69	DP Mtr_4.IV_SEL	Class_3	Variation 6	Variation 8
70	DP Mtr_4.IMV_SEL	Class_3	Variation 6	Variation 8
71	DP Mtr_4.SVOL_RATE	Class_2	Variation 6	Variation 8
72	DP Mtr_4.MASS_RATE	Class_2	Variation 6	Variation 8

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
73	DP Mtr_4.ENERGY_RATE	Class_2	Variation 6	Variation 8
74	DP Mtr_5.DP_INUSE	Class_2	Variation 6	Variation 8
75	DP Mtr_5.PF_INUSE	Class_2	Variation 6	Variation 8
76	DP Mtr_5.TF_INUSE	Class_2	Variation 6	Variation 8
77	DP Mtr_5.IV_SEL	Class_3	Variation 6	Variation 8
78	DP Mtr_5.IMV_SEL	Class_3	Variation 6	Variation 8
79	DP Mtr_5.SVOL_RATE	Class_2	Variation 6	Variation 8
80	DP Mtr_5.MASS_RATE	Class_2	Variation 6	Variation 8
81	DP Mtr_5.ENERGY_RATE	Class_2	Variation 6	Variation 8
82	DP Mtr_6.DP_INUSE	Class_2	Variation 6	Variation 8
83	DP Mtr_6.PF_INUSE	Class_2	Variation 6	Variation 8
84	DP Mtr_6.TF_INUSE	Class_2	Variation 6	Variation 8
85	DP Mtr_6.IV_SEL	Class_3	Variation 6	Variation 8
86	DP Mtr_6.IMV_SEL	Class_3	Variation 6	Variation 8
87	DP Mtr_6.SVOL_RATE	Class_2	Variation 6	Variation 8
88	DP Mtr_6.MASS_RATE	Class_2	Variation 6	Variation 8
89	DP Mtr_6.ENERGY_RATE	Class_2	Variation 6	Variation 8
90	DP Mtr_7.DP_INUSE	Class_2	Variation 6	Variation 8
91	DP Mtr_7.PF_INUSE	Class_2	Variation 6	Variation 8
92	DP Mtr_7.TF_INUSE	Class_2	Variation 6	Variation 8
93	DP Mtr_7.IV_SEL	Class_3	Variation 6	Variation 8
94	DP Mtr_7.IMV_SEL	Class_3	Variation 6	Variation 8
95	DP Mtr_7.SVOL_RATE	Class_2	Variation 6	Variation 8
96	DP Mtr_7.MASS_RATE	Class_2	Variation 6	Variation 8
97	DP Mtr_7.ENERGY_RATE	Class_2	Variation 6	Variation 8
98	DP Mtr_8.DP_INUSE	Class_2	Variation 6	Variation 8
99	DP Mtr_8.PF_INUSE	Class_2	Variation 6	Variation 8
100	DP Mtr_8.TF_INUSE	Class_2	Variation 6	Variation 8
101	DP Mtr_8.IV_SEL	Class_3	Variation 6	Variation 8
102	DP Mtr_8.IMV_SEL	Class_3	Variation 6	Variation 8
103	DP Mtr_8.SVOL_RATE	Class_2	Variation 6	Variation 8

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104	DP Mtr_8.MASS_RATE	Class_2	Variation 6	Variation 8
105	DP Mtr_8.ENERGY_RATE	Class_2	Variation 6	Variation 8
106	DP Mtr_9.DP_INUSE	Class_2	Variation 6	Variation 8
107	DP Mtr_9.PF_INUSE	Class_2	Variation 6	Variation 8
108	DP Mtr_9.TF_INUSE	Class_2	Variation 6	Variation 8
109	DP Mtr_9.IV_SEL	Class_3	Variation 6	Variation 8
110	DP Mtr_9.IMV_SEL	Class_3	Variation 6	Variation 8
111	DP Mtr_9.SVOL_RATE	Class_2	Variation 6	Variation 8
112	DP Mtr_9.MASS_RATE	Class_2	Variation 6	Variation 8
113	DP Mtr_9.ENERGY_RATE	Class_2	Variation 6	Variation 8
114	DP Mtr_10.DP_INUSE	Class_2	Variation 6	Variation 8
115	DP Mtr_10.PF_INUSE	Class_2	Variation 6	Variation 8
116	DP Mtr_10.TF_INUSE	Class_2	Variation 6	Variation 8
117	DP Mtr_10.IV_SEL	Class_3	Variation 6	Variation 8
118	DP Mtr_10.IMV_SEL	Class_3	Variation 6	Variation 8
119	DP Mtr_10.SVOL_RATE	Class_2	Variation 6	Variation 8
120	DP Mtr_10.MASS_RATE	Class_2	Variation 6	Variation 8
121	DP Mtr_10.ENERGY_RATE	Class_2	Variation 6	Variation 8
122	DP Mtr_11.DP_INUSE	Class_2	Variation 6	Variation 8
123	DP Mtr_11.PF_INUSE	Class_2	Variation 6	Variation 8
124	DP Mtr_11.TF_INUSE	Class_2	Variation 6	Variation 8
125	DP Mtr_11.IV_SEL	Class_3	Variation 6	Variation 8
126	DP Mtr_11.IMV_SEL	Class_3	Variation 6	Variation 8
127	DP Mtr_11.SVOL_RATE	Class_2	Variation 6	Variation 8
128	DP Mtr_11.MASS_RATE	Class_2	Variation 6	Variation 8
129	DP Mtr_11.ENERGY_RATE	Class_2	Variation 6	Variation 8
130	DP Mtr_12.DP_INUSE	Class_2	Variation 6	Variation 8
131	DP Mtr_12.PF_INUSE	Class_2	Variation 6	Variation 8
132	DP Mtr_12.TF_INUSE	Class_2	Variation 6	Variation 8
133	DP Mtr_12.IV_SEL	Class_3	Variation 6	Variation 8
134	DP Mtr_12.IMV_SEL	Class_3	Variation 6	Variation 8
135	DP Mtr_12.SVOL_RATE	Class_2	Variation 6	Variation 8

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
136	DP Mtr_12.MASS_RATE	Class_2	Variation 6	Variation 8
137	DP Mtr_12.ENERGY_RATE	Class_2	Variation 6	Variation 8
138	DP Mtr_13.DP_INUSE	Class_2	Variation 6	Variation 8
139	DP Mtr_13.PF_INUSE	Class_2	Variation 6	Variation 8
140	DP Mtr_13.TF_INUSE	Class_2	Variation 6	Variation 8
141	DP Mtr_13.IV_SEL	Class_3	Variation 6	Variation 8
142	DP Mtr_13.IMV_SEL	Class_3	Variation 6	Variation 8
143	DP Mtr_13.SVOL_RATE	Class_2	Variation 6	Variation 8
144	DP Mtr_13.MASS_RATE	Class_2	Variation 6	Variation 8
145	DP Mtr_13.ENERGY_RATE	Class_2	Variation 6	Variation 8
146	DP Mtr_14.DP_INUSE	Class_2	Variation 6	Variation 8
147	DP Mtr_14.PF_INUSE	Class_2	Variation 6	Variation 8
148	DP Mtr_14.TF_INUSE	Class_2	Variation 6	Variation 8
149	DP Mtr_14.IV_SEL	Class_3	Variation 6	Variation 8
150	DP Mtr_14.IMV_SEL	Class_3	Variation 6	Variation 8
151	DP Mtr_14.SVOL_RATE	Class_2	Variation 6	Variation 8
152	DP Mtr_14.MASS_RATE	Class_2	Variation 6	Variation 8
153	DP Mtr_14.ENERGY_RATE	Class_2	Variation 6	Variation 8
154	DP Mtr_15.DP_INUSE	Class_2	Variation 6	Variation 8
155	DP Mtr_15.PF_INUSE	Class_2	Variation 6	Variation 8
156	DP Mtr_15.TF_INUSE	Class_2	Variation 6	Variation 8
157	DP Mtr_15.IV_SEL	Class_3	Variation 6	Variation 8
158	DP Mtr_15.IMV_SEL	Class_3	Variation 6	Variation 8
159	DP Mtr_15.SVOL_RATE	Class_2	Variation 6	Variation 8
160	DP Mtr_15.MASS_RATE	Class_2	Variation 6	Variation 8
161	DP Mtr_15.ENERGY_RATE	Class_2	Variation 6	Variation 8
162	DP Mtr_16.DP_INUSE	Class_2	Variation 6	Variation 8
163	DP Mtr_16.PF_INUSE	Class_2	Variation 6	Variation 8
164	DP Mtr_16.TF_INUSE	Class_2	Variation 6	Variation 8
165	DP Mtr_16.IV_SEL	Class_3	Variation 6	Variation 8
166	DP Mtr_16.IMV_SEL	Class_3	Variation 6	Variation 8
167	DP Mtr_16.SVOL_RATE	Class_2	Variation 6	Variation 8

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168	DP Mtr_16.MASS_RATE	Class_2	Variation 6	Variation 8
169	DP Mtr_16.ENERGY_RATE	Class_2	Variation 6	Variation 8
170	DP Mtr_17.DP_INUSE	Class_2	Variation 6	Variation 8
171	DP Mtr_17.PF_INUSE	Class_2	Variation 6	Variation 8
172	DP Mtr_17.TF_INUSE	Class_2	Variation 6	Variation 8
173	DP Mtr_17.IV_SEL	Class_3	Variation 6	Variation 8
174	DP Mtr_17.IMV_SEL	Class_3	Variation 6	Variation 8
175	DP Mtr_17.SVOL_RATE	Class_2	Variation 6	Variation 8
176	DP Mtr_17.MASS_RATE	Class_2	Variation 6	Variation 8
177	DP Mtr_17.ENERGY_RATE	Class_2	Variation 6	Variation 8
178	DP Mtr_18.DP_INUSE	Class_2	Variation 6	Variation 8
179	DP Mtr_18.PF_INUSE	Class_2	Variation 6	Variation 8
180	DP Mtr_18.TF_INUSE	Class_2	Variation 6	Variation 8
181	DP Mtr_18.IV_SEL	Class_3	Variation 6	Variation 8
182	DP Mtr_18.IMV_SEL	Class_3	Variation 6	Variation 8
183	DP Mtr_18.SVOL_RATE	Class_2	Variation 6	Variation 8
184	DP Mtr_18.MASS_RATE	Class_2	Variation 6	Variation 8
185	DP Mtr_18.ENERGY_RATE	Class_2	Variation 6	Variation 8
186	DP Mtr_19.DP_INUSE	Class_2	Variation 6	Variation 8
187	DP Mtr_19.PF_INUSE	Class_2	Variation 6	Variation 8
188	DP Mtr_19.TF_INUSE	Class_2	Variation 6	Variation 8
189	DP Mtr_19.IV_SEL	Class_3	Variation 6	Variation 8
190	DP Mtr_19.IMV_SEL	Class_3	Variation 6	Variation 8
191	DP Mtr_19.SVOL_RATE	Class_2	Variation 6	Variation 8
192	DP Mtr_19.MASS_RATE	Class_2	Variation 6	Variation 8
193	DP Mtr_19.ENERGY_RATE	Class_2	Variation 6	Variation 8
194	DP Mtr_20.DP_INUSE	Class_2	Variation 6	Variation 8
195	DP Mtr_20.PF_INUSE	Class_2	Variation 6	Variation 8
196	DP Mtr_20.TF_INUSE	Class_2	Variation 6	Variation 8
197	DP Mtr_20.IV_SEL	Class_3	Variation 6	Variation 8
198	DP Mtr_20.IMV_SEL	Class_3	Variation 6	Variation 8
199	DP Mtr_20.SVOL_RATE	Class_2	Variation 6	Variation 8



Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
200	DP Mtr_20.MASS_RATE	Class_2	Variation 6	Variation 8
201	DP Mtr_20.ENERGY_RATE	Class_2	Variation 6	Variation 8
202	DP Mtr_21.DP_INUSE	Class_2	Variation 6	Variation 8
203	DP Mtr_21.PF_INUSE	Class_2	Variation 6	Variation 8
204	DP Mtr_21.TF_INUSE	Class_2	Variation 6	Variation 8
205	DP Mtr_21.IV_SEL	Class_3	Variation 6	Variation 8
206	DP Mtr_21.IMV_SEL	Class_3	Variation 6	Variation 8
207	DP Mtr_21.SVOL_RATE	Class_2	Variation 6	Variation 8
208	DP Mtr_21.MASS_RATE	Class_2	Variation 6	Variation 8
209	DP Mtr_21.ENERGY_RATE	Class_2	Variation 6	Variation 8
210	DP Mtr_22.DP_INUSE	Class_2	Variation 6	Variation 8
211	DP Mtr_22.PF_INUSE	Class_2	Variation 6	Variation 8
212	DP Mtr_22.TF_INUSE	Class_2	Variation 6	Variation 8
213	DP Mtr_22.IV_SEL	Class_3	Variation 6	Variation 8
214	DP Mtr_22.IMV_SEL	Class_3	Variation 6	Variation 8
215	DP Mtr_22.SVOL_RATE	Class_2	Variation 6	Variation 8
216	DP Mtr_22.MASS_RATE	Class_2	Variation 6	Variation 8
217	DP Mtr_22.ENERGY_RATE	Class_2	Variation 6	Variation 8
218	DP Mtr_23.DP_INUSE	Class_2	Variation 6	Variation 8
219	DP Mtr_23.PF_INUSE	Class_2	Variation 6	Variation 8
220	DP Mtr_23.TF_INUSE	Class_2	Variation 6	Variation 8
221	DP Mtr_23.IV_SEL	Class_3	Variation 6	Variation 8
222	DP Mtr_23.IMV_SEL	Class_3	Variation 6	Variation 8
223	DP Mtr_23.SVOL_RATE	Class_2	Variation 6	Variation 8
224	DP Mtr_23.MASS_RATE	Class_2	Variation 6	Variation 8
225	DP Mtr_23.ENERGY_RATE	Class_2	Variation 6	Variation 8
226	DP Mtr_24.DP_INUSE	Class_2	Variation 6	Variation 8
227	DP Mtr_24.PF_INUSE	Class_2	Variation 6	Variation 8
228	DP Mtr_24.TF_INUSE	Class_2	Variation 6	Variation 8
229	DP Mtr_24.IV_SEL	Class_3	Variation 6	Variation 8
230	DP Mtr_24.IMV_SEL	Class_3	Variation 6	Variation 8
231	DP Mtr_24.SVOL_RATE	Class_2	Variation 6	Variation 8

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Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
232	DP Mtr_24.MASS_RATE	Class_2	Variation 6	Variation 8
233	DP Mtr_24.ENERGY_RATE	Class_2	Variation 6	Variation 8
234	Linear Mtr_1.IQ_RATE	Class_2	Variation 6	Variation 8
235	Linear Mtr_1.PF_INUSE	Class_2	Variation 6	Variation 8
236	Linear Mtr_1.TF_INUSE	Class_2	Variation 6	Variation 8
237	Linear Mtr_1.IMV_SEL	Class_3	Variation 6	Variation 8
238	Linear Mtr_1.KF_SEL	Class_3	Variation 6	Variation 8
239	Linear Mtr_1.MF_SEL	Class_3	Variation 6	Variation 8
240	Linear Mtr_1.UVOL_RATE	Class_2	Variation 6	Variation 8
241	Linear Mtr_1.SVOL_RATE	Class_2	Variation 6	Variation 8
242	Linear Mtr_1.MASS_RATE	Class_2	Variation 6	Variation 8
243	Linear Mtr_1.ENERGY_RATE	Class_2	Variation 6	Variation 8
244	Linear Mtr_2.IQ_RATE	Class_2	Variation 6	Variation 8
245	Linear Mtr_2.PF_INUSE	Class_2	Variation 6	Variation 8
246	Linear Mtr_2.TF_INUSE	Class_2	Variation 6	Variation 8
247	Linear Mtr_2.IMV_SEL	Class_3	Variation 6	Variation 8
248	Linear Mtr_2.KF_SEL	Class_3	Variation 6	Variation 8
249	Linear Mtr_2.MF_SEL	Class_3	Variation 6	Variation 8
250	Linear Mtr_2.UVOL_RATE	Class_2	Variation 6	Variation 8
251	Linear Mtr_2.SVOL_RATE	Class_2	Variation 6	Variation 8
252	Linear Mtr_2.MASS_RATE	Class_2	Variation 6	Variation 8
253	Linear Mtr_2.ENERGY_RATE	Class_2	Variation 6	Variation 8
254	Linear Mtr_3.IQ_RATE	Class_2	Variation 6	Variation 8
255	Linear Mtr_3.PF_INUSE	Class_2	Variation 6	Variation 8
256	Linear Mtr_3.TF_INUSE	Class_2	Variation 6	Variation 8
257	Linear Mtr_3.IMV_SEL	Class_3	Variation 6	Variation 8
258	Linear Mtr_3.KF_SEL	Class_3	Variation 6	Variation 8
259	Linear Mtr_3.MF_SEL	Class_3	Variation 6	Variation 8
260	Linear Mtr_3.UVOL_RATE	Class_2	Variation 6	Variation 8
261	Linear Mtr_3.SVOL_RATE	Class_2	Variation 6	Variation 8
262	Linear Mtr_3.MASS_RATE	Class_2	Variation 6	Variation 8
263	Linear Mtr_3.ENERGY_RATE	Class_2	Variation 6	Variation 8

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
264	Linear Mtr_4.IQ_RATE	Class_2	Variation 6	Variation 8
265	Linear Mtr_4.PF_INUSE	Class_2	Variation 6	Variation 8
266	Linear Mtr_4.TF_INUSE	Class_2	Variation 6	Variation 8
267	Linear Mtr_4.IMV_SEL	Class_3	Variation 6	Variation 8
268	Linear Mtr_4.KF_SEL	Class_3	Variation 6	Variation 8
269	Linear Mtr_4.MF_SEL	Class_3	Variation 6	Variation 8
270	Linear Mtr_4.UVOL_RATE	Class_2	Variation 6	Variation 8
271	Linear Mtr_4.SVOL_RATE	Class_2	Variation 6	Variation 8
272	Linear Mtr_4.MASS_RATE	Class_2	Variation 6	Variation 8
273	Linear Mtr_4.ENERGY_RATE	Class_2	Variation 6	Variation 8
274	Linear Mtr_5.IQ_RATE	Class_2	Variation 6	Variation 8
275	Linear Mtr_5.PF_INUSE	Class_2	Variation 6	Variation 8
276	Linear Mtr_5.TF_INUSE	Class_2	Variation 6	Variation 8
277	Linear Mtr_5.IMV_SEL	Class_3	Variation 6	Variation 8
278	Linear Mtr_5.KF_SEL	Class_3	Variation 6	Variation 8
279	Linear Mtr_5.MF_SEL	Class_3	Variation 6	Variation 8
280	Linear Mtr_5.UVOL_RATE	Class_2	Variation 6	Variation 8
281	Linear Mtr_5.SVOL_RATE	Class_2	Variation 6	Variation 8
282	Linear Mtr_5.MASS_RATE	Class_2	Variation 6	Variation 8
283	Linear Mtr_5.ENERGY_RATE	Class_2	Variation 6	Variation 8
284	Linear Mtr_6.IQ_RATE	Class_2	Variation 6	Variation 8
285	Linear Mtr_6.PF_INUSE	Class_2	Variation 6	Variation 8
286	Linear Mtr_6.TF_INUSE	Class_2	Variation 6	Variation 8
287	Linear Mtr_6.IMV_SEL	Class_3	Variation 6	Variation 8
288	Linear Mtr_6.KF_SEL	Class_3	Variation 6	Variation 8
289	Linear Mtr_6.MF_SEL	Class_3	Variation 6	Variation 8
290	Linear Mtr_6.UVOL_RATE	Class_2	Variation 6	Variation 8
291	Linear Mtr_6.SVOL_RATE	Class_2	Variation 6	Variation 8
292	Linear Mtr_6.MASS_RATE	Class_2	Variation 6	Variation 8
293	Linear Mtr_6.ENERGY_RATE	Class_2	Variation 6	Variation 8
294	Linear Mtr_7.IQ_RATE	Class_2	Variation 6	Variation 8
295	Linear Mtr_7.PF_INUSE	Class_2	Variation 6	Variation 8

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Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
296	Linear Mtr_7.TF_INUSE	Class_2	Variation 6	Variation 8
297	Linear Mtr_7.IMV_SEL	Class_3	Variation 6	Variation 8
298	Linear Mtr_7.KF_SEL	Class_3	Variation 6	Variation 8
299	Linear Mtr_7.MF_SEL	Class_3	Variation 6	Variation 8
300	Linear Mtr_7.UVOL_RATE	Class_2	Variation 6	Variation 8
301	Linear Mtr_7.SVOL_RATE	Class_2	Variation 6	Variation 8
302	Linear Mtr_7.MASS_RATE	Class_2	Variation 6	Variation 8
303	Linear Mtr_7.ENERGY_RATE	Class_2	Variation 6	Variation 8
304	Linear Mtr_8.IQ_RATE	Class_2	Variation 6	Variation 8
305	Linear Mtr_8.PF_INUSE	Class_2	Variation 6	Variation 8
306	Linear Mtr_8.TF_INUSE	Class_2	Variation 6	Variation 8
307	Linear Mtr_8.IMV_SEL	Class_3	Variation 6	Variation 8
308	Linear Mtr_8.KF_SEL	Class_3	Variation 6	Variation 8
309	Linear Mtr_8.MF_SEL	Class_3	Variation 6	Variation 8
310	Linear Mtr_8.UVOL_RATE	Class_2	Variation 6	Variation 8
311	Linear Mtr_8.SVOL_RATE	Class_2	Variation 6	Variation 8
312	Linear Mtr_8.MASS_RATE	Class_2	Variation 6	Variation 8
313	Linear Mtr_8.ENERGY_RATE	Class_2	Variation 6	Variation 8
314	Linear Mtr_9.IQ_RATE	Class_2	Variation 6	Variation 8
315	Linear Mtr_9.PF_INUSE	Class_2	Variation 6	Variation 8
316	Linear Mtr_9.TF_INUSE	Class_2	Variation 6	Variation 8
317	Linear Mtr_9.IMV_SEL	Class_3	Variation 6	Variation 8
318	Linear Mtr_9.KF_SEL	Class_3	Variation 6	Variation 8
319	Linear Mtr_9.MF_SEL	Class_3	Variation 6	Variation 8
320	Linear Mtr_9.UVOL_RATE	Class_2	Variation 6	Variation 8
321	Linear Mtr_9.SVOL_RATE	Class_2	Variation 6	Variation 8
322	Linear Mtr_9.MASS_RATE	Class_2	Variation 6	Variation 8
323	Linear Mtr_9.ENERGY_RATE	Class_2	Variation 6	Variation 8
324	Linear Mtr_10.IQ_RATE	Class_2	Variation 6	Variation 8
325	Linear Mtr_10.PF_INUSE	Class_2	Variation 6	Variation 8
326	Linear Mtr_10.TF_INUSE	Class_2	Variation 6	Variation 8
327	Linear Mtr_10.IMV_SEL	Class_3	Variation 6	Variation 8

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
328	Linear Mtr_10.KF_SEL	Class_3	Variation 6	Variation 8
329	Linear Mtr_10.MF_SEL	Class_3	Variation 6	Variation 8
330	Linear Mtr_10.UVOL_RATE	Class_2	Variation 6	Variation 8
331	Linear Mtr_10.SVOL_RATE	Class_2	Variation 6	Variation 8
332	Linear Mtr_10.MASS_RATE	Class_2	Variation 6	Variation 8
333	Linear Mtr_10.ENERGY_RATE	Class_2	Variation 6	Variation 8
334	Linear Mtr_11.IQ_RATE	Class_2	Variation 6	Variation 8
335	Linear Mtr_11.PF_INUSE	Class_2	Variation 6	Variation 8
336	Linear Mtr_11.TF_INUSE	Class_2	Variation 6	Variation 8
337	Linear Mtr_11.IMV_SEL	Class_3	Variation 6	Variation 8
338	Linear Mtr_11.KF_SEL	Class_3	Variation 6	Variation 8
339	Linear Mtr_11.MF_SEL	Class_3	Variation 6	Variation 8
340	Linear Mtr_11.UVOL_RATE	Class_2	Variation 6	Variation 8
341	Linear Mtr_11.SVOL_RATE	Class_2	Variation 6	Variation 8
342	Linear Mtr_11.MASS_RATE	Class_2	Variation 6	Variation 8
343	Linear Mtr_11.ENERGY_RATE	Class_2	Variation 6	Variation 8
344	Linear Mtr_12.IQ_RATE	Class_2	Variation 6	Variation 8
345	Linear Mtr_12.PF_INUSE	Class_2	Variation 6	Variation 8
346	Linear Mtr_12.TF_INUSE	Class_2	Variation 6	Variation 8
347	Linear Mtr_12.IMV_SEL	Class_3	Variation 6	Variation 8
348	Linear Mtr_12.KF_SEL	Class_3	Variation 6	Variation 8
349	Linear Mtr_12.MF_SEL	Class_3	Variation 6	Variation 8
350	Linear Mtr_12.UVOL_RATE	Class_2	Variation 6	Variation 8
351	Linear Mtr_12.SVOL_RATE	Class_2	Variation 6	Variation 8
352	Linear Mtr_12.MASS_RATE	Class_2	Variation 6	Variation 8
353	Linear Mtr_12.ENERGY_RATE	Class_2	Variation 6	Variation 8
354	Linear Mtr_13.IQ_RATE	Class_2	Variation 6	Variation 8
355	Linear Mtr_13.PF_INUSE	Class_2	Variation 6	Variation 8
356	Linear Mtr_13.TF_INUSE	Class_2	Variation 6	Variation 8
357	Linear Mtr_13.IMV_SEL	Class_3	Variation 6	Variation 8
358	Linear Mtr_13.KF_SEL	Class_3	Variation 6	Variation 8
359	Linear Mtr_13.MF_SEL	Class_3	Variation 6	Variation 8

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360	Linear Mtr_13.UVOL_RATE	Class_2	Variation 6	Variation 8
361	Linear Mtr_13.SVOL_RATE	Class_2	Variation 6	Variation 8
362	Linear Mtr_13.MASS_RATE	Class_2	Variation 6	Variation 8
363	Linear Mtr_13.ENERGY_RATE	Class_2	Variation 6	Variation 8
364	Linear Mtr_14.IQ_RATE	Class_2	Variation 6	Variation 8
365	Linear Mtr_14.PF_INUSE	Class_2	Variation 6	Variation 8
366	Linear Mtr_14.TF_INUSE	Class_2	Variation 6	Variation 8
367	Linear Mtr_14.IMV_SEL	Class_3	Variation 6	Variation 8
368	Linear Mtr_14.KF_SEL	Class_3	Variation 6	Variation 8
369	Linear Mtr_14.MF_SEL	Class_3	Variation 6	Variation 8
370	Linear Mtr_14.UVOL_RATE	Class_2	Variation 6	Variation 8
371	Linear Mtr_14.SVOL_RATE	Class_2	Variation 6	Variation 8
372	Linear Mtr_14.MASS_RATE	Class_2	Variation 6	Variation 8
373	Linear Mtr_14.ENERGY_RATE	Class_2	Variation 6	Variation 8
374	Linear Mtr_15.IQ_RATE	Class_2	Variation 6	Variation 8
375	Linear Mtr_15.PF_INUSE	Class_2	Variation 6	Variation 8
376	Linear Mtr_15.TF_INUSE	Class_2	Variation 6	Variation 8
377	Linear Mtr_15.IMV_SEL	Class_3	Variation 6	Variation 8
378	Linear Mtr_15.KF_SEL	Class_3	Variation 6	Variation 8
379	Linear Mtr_15.MF_SEL	Class_3	Variation 6	Variation 8
380	Linear Mtr_15.UVOL_RATE	Class_2	Variation 6	Variation 8
381	Linear Mtr_15.SVOL_RATE	Class_2	Variation 6	Variation 8
382	Linear Mtr_15.MASS_RATE	Class_2	Variation 6	Variation 8
383	Linear Mtr_15.ENERGY_RATE	Class_2	Variation 6	Variation 8
384	Linear Mtr_16.IQ_RATE	Class_2	Variation 6	Variation 8
385	Linear Mtr_16.PF_INUSE	Class_2	Variation 6	Variation 8
386	Linear Mtr_16.TF_INUSE	Class_2	Variation 6	Variation 8
387	Linear Mtr_16.IMV_SEL	Class_3	Variation 6	Variation 8
388	Linear Mtr_16.KF_SEL	Class_3	Variation 6	Variation 8
389	Linear Mtr_16.MF_SEL	Class_3	Variation 6	Variation 8
390	Linear Mtr_16.UVOL_RATE	Class_2	Variation 6	Variation 8
391	Linear Mtr_16.SVOL_RATE	Class_2	Variation 6	Variation 8

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
392	Linear Mtr_16.MASS_RATE	Class_2	Variation 6	Variation 8
393	Linear Mtr_16.ENERGY_RATE	Class_2	Variation 6	Variation 8
394	Linear Mtr_17.IQ_RATE	Class_2	Variation 6	Variation 8
395	Linear Mtr_17.PF_INUSE	Class_2	Variation 6	Variation 8
396	Linear Mtr_17.TF_INUSE	Class_2	Variation 6	Variation 8
397	Linear Mtr_17.IMV_SEL	Class_3	Variation 6	Variation 8
398	Linear Mtr_17.KF_SEL	Class_3	Variation 6	Variation 8
399	Linear Mtr_17.MF_SEL	Class_3	Variation 6	Variation 8
400	Linear Mtr_17.UVOL_RATE	Class_2	Variation 6	Variation 8
401	Linear Mtr_17.SVOL_RATE	Class_2	Variation 6	Variation 8
402	Linear Mtr_17.MASS_RATE	Class_2	Variation 6	Variation 8
403	Linear Mtr_17.ENERGY_RATE	Class_2	Variation 6	Variation 8
404	Linear Mtr_18.IQ_RATE	Class_2	Variation 6	Variation 8
405	Linear Mtr_18.PF_INUSE	Class_2	Variation 6	Variation 8
406	Linear Mtr_18.TF_INUSE	Class_2	Variation 6	Variation 8
407	Linear Mtr_18.IMV_SEL	Class_3	Variation 6	Variation 8
408	Linear Mtr_18.KF_SEL	Class_3	Variation 6	Variation 8
409	Linear Mtr_18.MF_SEL	Class_3	Variation 6	Variation 8
410	Linear Mtr_18.UVOL_RATE	Class_2	Variation 6	Variation 8
411	Linear Mtr_18.SVOL_RATE	Class_2	Variation 6	Variation 8
412	Linear Mtr_18.MASS_RATE	Class_2	Variation 6	Variation 8
413	Linear Mtr_18.ENERGY_RATE	Class_2	Variation 6	Variation 8
414	Linear Mtr_19.IQ_RATE	Class_2	Variation 6	Variation 8
415	Linear Mtr_19.PF_INUSE	Class_2	Variation 6	Variation 8
416	Linear Mtr_19.TF_INUSE	Class_2	Variation 6	Variation 8
417	Linear Mtr_19.IMV_SEL	Class_3	Variation 6	Variation 8
418	Linear Mtr_19.KF_SEL	Class_3	Variation 6	Variation 8
419	Linear Mtr_19.MF_SEL	Class_3	Variation 6	Variation 8
420	Linear Mtr_19.UVOL_RATE	Class_2	Variation 6	Variation 8
421	Linear Mtr_19.SVOL_RATE	Class_2	Variation 6	Variation 8
422	Linear Mtr_19.MASS_RATE	Class_2	Variation 6	Variation 8
423	Linear Mtr_19.ENERGY_RATE	Class_2	Variation 6	Variation 8

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424	Linear Mtr_20.IQ_RATE	Class_2	Variation 6	Variation 8
425	Linear Mtr_20.PF_INUSE	Class_2	Variation 6	Variation 8
426	Linear Mtr_20.TF_INUSE	Class_2	Variation 6	Variation 8
427	Linear Mtr_20.IMV_SEL	Class_3	Variation 6	Variation 8
428	Linear Mtr_20.KF_SEL	Class_3	Variation 6	Variation 8
429	Linear Mtr_20.MF_SEL	Class_3	Variation 6	Variation 8
430	Linear Mtr_20.UVOL_RATE	Class_2	Variation 6	Variation 8
431	Linear Mtr_20.SVOL_RATE	Class_2	Variation 6	Variation 8
432	Linear Mtr_20.MASS_RATE	Class_2	Variation 6	Variation 8
433	Linear Mtr_20.ENERGY_RATE	Class_2	Variation 6	Variation 8
434	Linear Mtr_21.IQ_RATE	Class_2	Variation 6	Variation 8
435	Linear Mtr_21.PF_INUSE	Class_2	Variation 6	Variation 8
436	Linear Mtr_21.TF_INUSE	Class_2	Variation 6	Variation 8
437	Linear Mtr_21.IMV_SEL	Class_3	Variation 6	Variation 8
438	Linear Mtr_21.KF_SEL	Class_3	Variation 6	Variation 8
439	Linear Mtr_21.MF_SEL	Class_3	Variation 6	Variation 8
440	Linear Mtr_21.UVOL_RATE	Class_2	Variation 6	Variation 8
441	Linear Mtr_21.SVOL_RATE	Class_2	Variation 6	Variation 8
442	Linear Mtr_21.MASS_RATE	Class_2	Variation 6	Variation 8
443	Linear Mtr_21.ENERGY_RATE	Class_2	Variation 6	Variation 8
444	Linear Mtr_22.IQ_RATE	Class_2	Variation 6	Variation 8
445	Linear Mtr_22.PF_INUSE	Class_2	Variation 6	Variation 8
446	Linear Mtr_22.TF_INUSE	Class_2	Variation 6	Variation 8
447	Linear Mtr_22.IMV_SEL	Class_3	Variation 6	Variation 8
448	Linear Mtr_22.KF_SEL	Class_3	Variation 6	Variation 8
449	Linear Mtr_22.MF_SEL	Class_3	Variation 6	Variation 8
450	Linear Mtr_22.UVOL_RATE	Class_2	Variation 6	Variation 8
451	Linear Mtr_22.SVOL_RATE	Class_2	Variation 6	Variation 8
452	Linear Mtr_22.MASS_RATE	Class_2	Variation 6	Variation 8
453	Linear Mtr_22.ENERGY_RATE	Class_2	Variation 6	Variation 8
454	Linear Mtr_23.IQ_RATE	Class_2	Variation 6	Variation 8
455	Linear Mtr_23.PF_INUSE	Class_2	Variation 6	Variation 8



Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
456	Linear Mtr_23.TF_INUSE	Class_2	Variation 6	Variation 8
457	Linear Mtr_23.IMV_SEL	Class_3	Variation 6	Variation 8
458	Linear Mtr_23.KF_SEL	Class_3	Variation 6	Variation 8
459	Linear Mtr_23.MF_SEL	Class_3	Variation 6	Variation 8
460	Linear Mtr_23.UVOL_RATE	Class_2	Variation 6	Variation 8
461	Linear Mtr_23.SVOL_RATE	Class_2	Variation 6	Variation 8
462	Linear Mtr_23.MASS_RATE	Class_2	Variation 6	Variation 8
463	Linear Mtr_23.ENERGY_RATE	Class_2	Variation 6	Variation 8
464	Linear Mtr_24.IQ_RATE	Class_2	Variation 6	Variation 8
465	Linear Mtr_24.PF_INUSE	Class_2	Variation 6	Variation 8
466	Linear Mtr_24.TF_INUSE	Class_2	Variation 6	Variation 8
467	Linear Mtr_24.IMV_SEL	Class_3	Variation 6	Variation 8
468	Linear Mtr_24.KF_SEL	Class_3	Variation 6	Variation 8
469	Linear Mtr_24.MF_SEL	Class_3	Variation 6	Variation 8
470	Linear Mtr_24.UVOL_RATE	Class_2	Variation 6	Variation 8
471	Linear Mtr_24.SVOL_RATE	Class_2	Variation 6	Variation 8
472	Linear Mtr_24.MASS_RATE	Class_2	Variation 6	Variation 8
473	Linear Mtr_24.ENERGY_RATE	Class_2	Variation 6	Variation 8
474	Liq LinMtr_1.IQ_RATE	Class_2	Variation 6	Variation 8
475	Liq LinMtr_1.PF_INUSE	Class_2	Variation 6	Variation 8
476	Liq LinMtr_1.TF_INUSE	Class_2	Variation 6	Variation 8
477	Liq LinMtr_1.KF_SEL	Class_3	Variation 6	Variation 8
478	Liq LinMtr_1.MF_SEL	Class_3	Variation 6	Variation 8
479	Liq LinMtr_1.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
480	Liq LinMtr_1.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
481	Liq LinMtr_1.GVOL_RATE	Class_2	Variation 6	Variation 8
482	Liq LinMtr_1.UVOL_O_RATE	Class_2	Variation 6	Variation 8
483	Liq LinMtr_1.SVOL_O_RATE	Class_2	Variation 6	Variation 8
484	Liq LinMtr_1.UVOL_W_RATE	Class_2	Variation 6	Variation 8
485	Liq LinMtr_1.SVOL_W_RATE	Class_2	Variation 6	Variation 8
486	Liq LinMtr_2.IQ_RATE	Class_2	Variation 6	Variation 8
487	Liq LinMtr_2.PF_INUSE	Class_2	Variation 6	Variation 8

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488	Liq LinMtr_2.TF_INUSE	Class_2	Variation 6	Variation 8
489	Liq LinMtr_2.KF_SEL	Class_3	Variation 6	Variation 8
490	Liq LinMtr_2.MF_SEL	Class_3	Variation 6	Variation 8
491	Liq LinMtr_2.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
492	Liq LinMtr_2.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
493	Liq LinMtr_2.GVOL_RATE	Class_2	Variation 6	Variation 8
494	Liq LinMtr_2.UVOL_O_RATE	Class_2	Variation 6	Variation 8
495	Liq LinMtr_2.SVOL_O_RATE	Class_2	Variation 6	Variation 8
496	Liq LinMtr_2.UVOL_W_RATE	Class_2	Variation 6	Variation 8
497	Liq LinMtr_2.SVOL_W_RATE	Class_2	Variation 6	Variation 8
498	Liq LinMtr_3.IQ_RATE	Class_2	Variation 6	Variation 8
499	Liq LinMtr_3.PF_INUSE	Class_2	Variation 6	Variation 8
500	Liq LinMtr_3.TF_INUSE	Class_2	Variation 6	Variation 8
501	Liq LinMtr_3.KF_SEL	Class_3	Variation 6	Variation 8
502	Liq LinMtr_3.MF_SEL	Class_3	Variation 6	Variation 8
503	Liq LinMtr_3.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
504	Liq LinMtr_3.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
505	Liq LinMtr_3.GVOL_RATE	Class_2	Variation 6	Variation 8
506	Liq LinMtr_3.UVOL_O_RATE	Class_2	Variation 6	Variation 8
507	Liq LinMtr_3.SVOL_O_RATE	Class_2	Variation 6	Variation 8
508	Liq LinMtr_3.UVOL_W_RATE	Class_2	Variation 6	Variation 8
509	Liq LinMtr_3.SVOL_W_RATE	Class_2	Variation 6	Variation 8
510	Liq LinMtr_4.IQ_RATE	Class_2	Variation 6	Variation 8
511	Liq LinMtr_4.PF_INUSE	Class_2	Variation 6	Variation 8
512	Liq LinMtr_4.TF_INUSE	Class_2	Variation 6	Variation 8
513	Liq LinMtr_4.KF_SEL	Class_3	Variation 6	Variation 8
514	Liq LinMtr_4.MF_SEL	Class_3	Variation 6	Variation 8
515	Liq LinMtr_4.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
516	Liq LinMtr_4.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
517	Liq LinMtr_4.GVOL_RATE	Class_2	Variation 6	Variation 8
518	Liq LinMtr_4.UVOL_O_RATE	Class_2	Variation 6	Variation 8
519	Liq LinMtr_4.SVOL_O_RATE	Class_2	Variation 6	Variation 8

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
520	Liq LinMtr_4.UVOL_W_RATE	Class_2	Variation 6	Variation 8
521	Liq LinMtr_4.SVOL_W_RATE	Class_2	Variation 6	Variation 8
522	Liq LinMtr_5.IQ_RATE	Class_2	Variation 6	Variation 8
523	Liq LinMtr_5.PF_INUSE	Class_2	Variation 6	Variation 8
524	Liq LinMtr_5.TF_INUSE	Class_2	Variation 6	Variation 8
525	Liq LinMtr_5.KF_SEL	Class_3	Variation 6	Variation 8
526	Liq LinMtr_5.MF_SEL	Class_3	Variation 6	Variation 8
527	Liq LinMtr_5.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
528	Liq LinMtr_5.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
529	Liq LinMtr_5.GVOL_RATE	Class_2	Variation 6	Variation 8
530	Liq LinMtr_5.UVOL_O_RATE	Class_2	Variation 6	Variation 8
531	Liq LinMtr_5.SVOL_O_RATE	Class_2	Variation 6	Variation 8
532	Liq LinMtr_5.UVOL_W_RATE	Class_2	Variation 6	Variation 8
533	Liq LinMtr_5.SVOL_W_RATE	Class_2	Variation 6	Variation 8
534	Liq LinMtr_6.IQ_RATE	Class_2	Variation 6	Variation 8
535	Liq LinMtr_6.PF_INUSE	Class_2	Variation 6	Variation 8
536	Liq LinMtr_6.TF_INUSE	Class_2	Variation 6	Variation 8
537	Liq LinMtr_6.KF_SEL	Class_3	Variation 6	Variation 8
538	Liq LinMtr_6.MF_SEL	Class_3	Variation 6	Variation 8
539	Liq LinMtr_6.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
540	Liq LinMtr_6.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
541	Liq LinMtr_6.GVOL_RATE	Class_2	Variation 6	Variation 8
542	Liq LinMtr_6.UVOL_O_RATE	Class_2	Variation 6	Variation 8
543	Liq LinMtr_6.SVOL_O_RATE	Class_2	Variation 6	Variation 8
544	Liq LinMtr_6.UVOL_W_RATE	Class_2	Variation 6	Variation 8
545	Liq LinMtr_6.SVOL_W_RATE	Class_2	Variation 6	Variation 8
546	Liq LinMtr_7.IQ_RATE	Class_2	Variation 6	Variation 8
547	Liq LinMtr_7.PF_INUSE	Class_2	Variation 6	Variation 8
548	Liq LinMtr_7.TF_INUSE	Class_2	Variation 6	Variation 8
549	Liq LinMtr_7.KF_SEL	Class_3	Variation 6	Variation 8
550	Liq LinMtr_7.MF_SEL	Class_3	Variation 6	Variation 8
551	Liq LinMtr_7.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8

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552	Liq LinMtr_7.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
553	Liq LinMtr_7.GVOL_RATE	Class_2	Variation 6	Variation 8
554	Liq LinMtr_7.UVOL_O_RATE	Class_2	Variation 6	Variation 8
555	Liq LinMtr_7.SVOL_O_RATE	Class_2	Variation 6	Variation 8
556	Liq LinMtr_7.UVOL_W_RATE	Class_2	Variation 6	Variation 8
557	Liq LinMtr_7.SVOL_W_RATE	Class_2	Variation 6	Variation 8
558	Liq LinMtr_8.IQ_RATE	Class_2	Variation 6	Variation 8
559	Liq LinMtr_8.PF_INUSE	Class_2	Variation 6	Variation 8
560	Liq LinMtr_8.TF_INUSE	Class_2	Variation 6	Variation 8
561	Liq LinMtr_8.KF_SEL	Class_3	Variation 6	Variation 8
562	Liq LinMtr_8.MF_SEL	Class_3	Variation 6	Variation 8
563	Liq LinMtr_8.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
564	Liq LinMtr_8.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
565	Liq LinMtr_8.GVOL_RATE	Class_2	Variation 6	Variation 8
566	Liq LinMtr_8.UVOL_O_RATE	Class_2	Variation 6	Variation 8
567	Liq LinMtr_8.SVOL_O_RATE	Class_2	Variation 6	Variation 8
568	Liq LinMtr_8.UVOL_W_RATE	Class_2	Variation 6	Variation 8
569	Liq LinMtr_8.SVOL_W_RATE	Class_2	Variation 6	Variation 8
570	Liq LinMtr_9.IQ_RATE	Class_2	Variation 6	Variation 8
571	Liq LinMtr_9.PF_INUSE	Class_2	Variation 6	Variation 8
572	Liq LinMtr_9.TF_INUSE	Class_2	Variation 6	Variation 8
573	Liq LinMtr_9.KF_SEL	Class_3	Variation 6	Variation 8
574	Liq LinMtr_9.MF_SEL	Class_3	Variation 6	Variation 8
575	Liq LinMtr_9.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
576	Liq LinMtr_9.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
577	Liq LinMtr_9.GVOL_RATE	Class_2	Variation 6	Variation 8
578	Liq LinMtr_9.UVOL_O_RATE	Class_2	Variation 6	Variation 8
579	Liq LinMtr_9.SVOL_O_RATE	Class_2	Variation 6	Variation 8
580	Liq LinMtr_9.UVOL_W_RATE	Class_2	Variation 6	Variation 8
581	Liq LinMtr_9.SVOL_W_RATE	Class_2	Variation 6	Variation 8
582	Liq LinMtr_10.IQ_RATE	Class_2	Variation 6	Variation 8
583	Liq LinMtr_10.PF_INUSE	Class_2	Variation 6	Variation 8

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584	Liq LinMtr_10.TF_INUSE	Class_2	Variation 6	Variation 8
585	Liq LinMtr_10.KF_SEL	Class_3	Variation 6	Variation 8
586	Liq LinMtr_10.MF_SEL	Class_3	Variation 6	Variation 8
587	Liq LinMtr_10.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
588	Liq LinMtr_10.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
589	Liq LinMtr_10.GVOL_RATE	Class_2	Variation 6	Variation 8
590	Liq LinMtr_10.UVOL_O_RATE	Class_2	Variation 6	Variation 8
591	Liq LinMtr_10.SVOL_O_RATE	Class_2	Variation 6	Variation 8
592	Liq LinMtr_10.UVOL_W_RATE	Class_2	Variation 6	Variation 8
593	Liq LinMtr_10.SVOL_W_RATE	Class_2	Variation 6	Variation 8
594	Liq LinMtr_11.IQ_RATE	Class_2	Variation 6	Variation 8
595	Liq LinMtr_11.PF_INUSE	Class_2	Variation 6	Variation 8
596	Liq LinMtr_11.TF_INUSE	Class_2	Variation 6	Variation 8
597	Liq LinMtr_11.KF_SEL	Class_3	Variation 6	Variation 8
598	Liq LinMtr_11.MF_SEL	Class_3	Variation 6	Variation 8
599	Liq LinMtr_11.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
600	Liq LinMtr_11.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
601	Liq LinMtr_11.GVOL_RATE	Class_2	Variation 6	Variation 8
602	Liq LinMtr_11.UVOL_O_RATE	Class_2	Variation 6	Variation 8
603	Liq LinMtr_11.SVOL_O_RATE	Class_2	Variation 6	Variation 8
604	Liq LinMtr_11.UVOL_W_RATE	Class_2	Variation 6	Variation 8
605	Liq LinMtr_11.SVOL_W_RATE	Class_2	Variation 6	Variation 8
606	Liq LinMtr_12.IQ_RATE	Class_2	Variation 6	Variation 8
607	Liq LinMtr_12.PF_INUSE	Class_2	Variation 6	Variation 8
608	Liq LinMtr_12.TF_INUSE	Class_2	Variation 6	Variation 8
609	Liq LinMtr_12.KF_SEL	Class_3	Variation 6	Variation 8
610	Liq LinMtr_12.MF_SEL	Class_3	Variation 6	Variation 8
611	Liq LinMtr_12.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
612	Liq LinMtr_12.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
613	Liq LinMtr_12.GVOL_RATE	Class_2	Variation 6	Variation 8
614	Liq LinMtr_12.UVOL_O_RATE	Class_2	Variation 6	Variation 8
615	Liq LinMtr_12.SVOL_O_RATE	Class_2	Variation 6	Variation 8

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616	Liq LinMtr_12.UVOL_W_RATE	Class_2	Variation 6	Variation 8
617	Liq LinMtr_12.SVOL_W_RATE	Class_2	Variation 6	Variation 8
618	Liq LinMtr_13.IQ_RATE	Class_2	Variation 6	Variation 8
619	Liq LinMtr_13.PF_INUSE	Class_2	Variation 6	Variation 8
620	Liq LinMtr_13.TF_INUSE	Class_2	Variation 6	Variation 8
621	Liq LinMtr_13.KF_SEL	Class_3	Variation 6	Variation 8
622	Liq LinMtr_13.MF_SEL	Class_3	Variation 6	Variation 8
623	Liq LinMtr_13.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
624	Liq LinMtr_13.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
625	Liq LinMtr_13.GVOL_RATE	Class_2	Variation 6	Variation 8
626	Liq LinMtr_13.UVOL_O_RATE	Class_2	Variation 6	Variation 8
627	Liq LinMtr_13.SVOL_O_RATE	Class_2	Variation 6	Variation 8
628	Liq LinMtr_13.UVOL_W_RATE	Class_2	Variation 6	Variation 8
629	Liq LinMtr_13.SVOL_W_RATE	Class_2	Variation 6	Variation 8
630	Liq LinMtr_14.IQ_RATE	Class_2	Variation 6	Variation 8
631	Liq LinMtr_14.PF_INUSE	Class_2	Variation 6	Variation 8
632	Liq LinMtr_14.TF_INUSE	Class_2	Variation 6	Variation 8
633	Liq LinMtr_14.KF_SEL	Class_3	Variation 6	Variation 8
634	Liq LinMtr_14.MF_SEL	Class_3	Variation 6	Variation 8
635	Liq LinMtr_14.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
636	Liq LinMtr_14.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
637	Liq LinMtr_14.GVOL_RATE	Class_2	Variation 6	Variation 8
638	Liq LinMtr_14.UVOL_O_RATE	Class_2	Variation 6	Variation 8
639	Liq LinMtr_14.SVOL_O_RATE	Class_2	Variation 6	Variation 8
640	Liq LinMtr_14.UVOL_W_RATE	Class_2	Variation 6	Variation 8
641	Liq LinMtr_14.SVOL_W_RATE	Class_2	Variation 6	Variation 8
642	Liq LinMtr_15.IQ_RATE	Class_2	Variation 6	Variation 8
643	Liq LinMtr_15.PF_INUSE	Class_2	Variation 6	Variation 8
644	Liq LinMtr_15.TF_INUSE	Class_2	Variation 6	Variation 8
645	Liq LinMtr_15.KF_SEL	Class_3	Variation 6	Variation 8
646	Liq LinMtr_15.MF_SEL	Class_3	Variation 6	Variation 8
647	Liq LinMtr_15.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8

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648	Liq LinMtr_15.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
649	Liq LinMtr_15.GVOL_RATE	Class_2	Variation 6	Variation 8
650	Liq LinMtr_15.UVOL_O_RATE	Class_2	Variation 6	Variation 8
651	Liq LinMtr_15.SVOL_O_RATE	Class_2	Variation 6	Variation 8
652	Liq LinMtr_15.UVOL_W_RATE	Class_2	Variation 6	Variation 8
653	Liq LinMtr_15.SVOL_W_RATE	Class_2	Variation 6	Variation 8
654	Liq LinMtr_16.IQ_RATE	Class_2	Variation 6	Variation 8
655	Liq LinMtr_16.PF_INUSE	Class_2	Variation 6	Variation 8
656	Liq LinMtr_16.TF_INUSE	Class_2	Variation 6	Variation 8
657	Liq LinMtr_16.KF_SEL	Class_3	Variation 6	Variation 8
658	Liq LinMtr_16.MF_SEL	Class_3	Variation 6	Variation 8
659	Liq LinMtr_16.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
660	Liq LinMtr_16.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
661	Liq LinMtr_16.GVOL_RATE	Class_2	Variation 6	Variation 8
662	Liq LinMtr_16.UVOL_O_RATE	Class_2	Variation 6	Variation 8
663	Liq LinMtr_16.SVOL_O_RATE	Class_2	Variation 6	Variation 8
664	Liq LinMtr_16.UVOL_W_RATE	Class_2	Variation 6	Variation 8
665	Liq LinMtr_16.SVOL_W_RATE	Class_2	Variation 6	Variation 8
666	Liq LinMtr_17.IQ_RATE	Class_2	Variation 6	Variation 8
667	Liq LinMtr_17.PF_INUSE	Class_2	Variation 6	Variation 8
668	Liq LinMtr_17.TF_INUSE	Class_2	Variation 6	Variation 8
669	Liq LinMtr_17.KF_SEL	Class_3	Variation 6	Variation 8
670	Liq LinMtr_17.MF_SEL	Class_3	Variation 6	Variation 8
671	Liq LinMtr_17.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
672	Liq LinMtr_17.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
673	Liq LinMtr_17.GVOL_RATE	Class_2	Variation 6	Variation 8
674	Liq LinMtr_17.UVOL_O_RATE	Class_2	Variation 6	Variation 8
675	Liq LinMtr_17.SVOL_O_RATE	Class_2	Variation 6	Variation 8
676	Liq LinMtr_17.UVOL_W_RATE	Class_2	Variation 6	Variation 8
677	Liq LinMtr_17.SVOL_W_RATE	Class_2	Variation 6	Variation 8
678	Liq LinMtr_18.IQ_RATE	Class_2	Variation 6	Variation 8
679	Liq LinMtr_18.PF_INUSE	Class_2	Variation 6	Variation 8

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680	Liq LinMtr_18.TF_INUSE	Class_2	Variation 6	Variation 8
681	Liq LinMtr_18.KF_SEL	Class_3	Variation 6	Variation 8
682	Liq LinMtr_18.MF_SEL	Class_3	Variation 6	Variation 8
683	Liq LinMtr_18.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
684	Liq LinMtr_18.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
685	Liq LinMtr_18.GVOL_RATE	Class_2	Variation 6	Variation 8
686	Liq LinMtr_18.UVOL_O_RATE	Class_2	Variation 6	Variation 8
687	Liq LinMtr_18.SVOL_O_RATE	Class_2	Variation 6	Variation 8
688	Liq LinMtr_18.UVOL_W_RATE	Class_2	Variation 6	Variation 8
689	Liq LinMtr_18.SVOL_W_RATE	Class_2	Variation 6	Variation 8
690	Liq LinMtr_19.IQ_RATE	Class_2	Variation 6	Variation 8
691	Liq LinMtr_19.PF_INUSE	Class_2	Variation 6	Variation 8
692	Liq LinMtr_19.TF_INUSE	Class_2	Variation 6	Variation 8
693	Liq LinMtr_19.KF_SEL	Class_3	Variation 6	Variation 8
694	Liq LinMtr_19.MF_SEL	Class_3	Variation 6	Variation 8
695	Liq LinMtr_19.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
696	Liq LinMtr_19.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
697	Liq LinMtr_19.GVOL_RATE	Class_2	Variation 6	Variation 8
698	Liq LinMtr_19.UVOL_O_RATE	Class_2	Variation 6	Variation 8
699	Liq LinMtr_19.SVOL_O_RATE	Class_2	Variation 6	Variation 8
700	Liq LinMtr_19.UVOL_W_RATE	Class_2	Variation 6	Variation 8
701	Liq LinMtr_19.SVOL_W_RATE	Class_2	Variation 6	Variation 8
702	Liq LinMtr_20.IQ_RATE	Class_2	Variation 6	Variation 8
703	Liq LinMtr_20.PF_INUSE	Class_2	Variation 6	Variation 8
704	Liq LinMtr_20.TF_INUSE	Class_2	Variation 6	Variation 8
705	Liq LinMtr_20.KF_SEL	Class_3	Variation 6	Variation 8
706	Liq LinMtr_20.MF_SEL	Class_3	Variation 6	Variation 8
707	Liq LinMtr_20.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
708	Liq LinMtr_20.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
709	Liq LinMtr_20.GVOL_RATE	Class_2	Variation 6	Variation 8
710	Liq LinMtr_20.UVOL_O_RATE	Class_2	Variation 6	Variation 8
711	Liq LinMtr_20.SVOL_O_RATE	Class_2	Variation 6	Variation 8



Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
712	Liq LinMtr_20.UVOL_W_RATE	Class_2	Variation 6	Variation 8
713	Liq LinMtr_20.SVOL_W_RATE	Class_2	Variation 6	Variation 8
714	Liq LinMtr_21.IQ_RATE	Class_2	Variation 6	Variation 8
715	Liq LinMtr_21.PF_INUSE	Class_2	Variation 6	Variation 8
716	Liq LinMtr_21.TF_INUSE	Class_2	Variation 6	Variation 8
717	Liq LinMtr_21.KF_SEL	Class_3	Variation 6	Variation 8
718	Liq LinMtr_21.MF_SEL	Class_3	Variation 6	Variation 8
719	Liq LinMtr_21.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
720	Liq LinMtr_21.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
721	Liq LinMtr_21.GVOL_RATE	Class_2	Variation 6	Variation 8
722	Liq LinMtr_21.UVOL_O_RATE	Class_2	Variation 6	Variation 8
723	Liq LinMtr_21.SVOL_O_RATE	Class_2	Variation 6	Variation 8
724	Liq LinMtr_21.UVOL_W_RATE	Class_2	Variation 6	Variation 8
725	Liq LinMtr_21.SVOL_W_RATE	Class_2	Variation 6	Variation 8
726	Liq LinMtr_22.IQ_RATE	Class_2	Variation 6	Variation 8
727	Liq LinMtr_22.PF_INUSE	Class_2	Variation 6	Variation 8
728	Liq LinMtr_22.TF_INUSE	Class_2	Variation 6	Variation 8
729	Liq LinMtr_22.KF_SEL	Class_3	Variation 6	Variation 8
730	Liq LinMtr_22.MF_SEL	Class_3	Variation 6	Variation 8
731	Liq LinMtr_22.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
732	Liq LinMtr_22.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
733	Liq LinMtr_22.GVOL_RATE	Class_2	Variation 6	Variation 8
734	Liq LinMtr_22.UVOL_O_RATE	Class_2	Variation 6	Variation 8
735	Liq LinMtr_22.SVOL_O_RATE	Class_2	Variation 6	Variation 8
736	Liq LinMtr_22.UVOL_W_RATE	Class_2	Variation 6	Variation 8
737	Liq LinMtr_22.SVOL_W_RATE	Class_2	Variation 6	Variation 8
738	Liq LinMtr_23.IQ_RATE	Class_2	Variation 6	Variation 8
739	Liq LinMtr_23.PF_INUSE	Class_2	Variation 6	Variation 8
740	Liq LinMtr_23.TF_INUSE	Class_2	Variation 6	Variation 8
741	Liq LinMtr_23.KF_SEL	Class_3	Variation 6	Variation 8
742	Liq LinMtr_23.MF_SEL	Class_3	Variation 6	Variation 8
743	Liq LinMtr_23.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8

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744	Liq LinMtr_23.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
745	Liq LinMtr_23.GVOL_RATE	Class_2	Variation 6	Variation 8
746	Liq LinMtr_23.UVOL_O_RATE	Class_2	Variation 6	Variation 8
747	Liq LinMtr_23.SVOL_O_RATE	Class_2	Variation 6	Variation 8
748	Liq LinMtr_23.UVOL_W_RATE	Class_2	Variation 6	Variation 8
749	Liq LinMtr_23.SVOL_W_RATE	Class_2	Variation 6	Variation 8
750	Liq LinMtr_24.IQ_RATE	Class_2	Variation 6	Variation 8
751	Liq LinMtr_24.PF_INUSE	Class_2	Variation 6	Variation 8
752	Liq LinMtr_24.TF_INUSE	Class_2	Variation 6	Variation 8
753	Liq LinMtr_24.KF_SEL	Class_3	Variation 6	Variation 8
754	Liq LinMtr_24.MF_SEL	Class_3	Variation 6	Variation 8
755	Liq LinMtr_24.FLUID_PROP_OBJ.SF_SEL	Class_3	Variation 6	Variation 8
756	Liq LinMtr_24.FLUID_PROP_OBJ.WC_SEL	Class_3	Variation 6	Variation 8
757	Liq LinMtr_24.GVOL_RATE	Class_2	Variation 6	Variation 8
758	Liq LinMtr_24.UVOL_O_RATE	Class_2	Variation 6	Variation 8
759	Liq LinMtr_24.SVOL_O_RATE	Class_2	Variation 6	Variation 8
760	Liq LinMtr_24.UVOL_W_RATE	Class_2	Variation 6	Variation 8
761	Liq LinMtr_24.SVOL_W_RATE	Class_2	Variation 6	Variation 8
762	Station_1.UVOL_RATE	Class_2	Variation 6	Variation 8
763	Station_1.SVOL_RATE	Class_2	Variation 6	Variation 8
764	Station_1.MASS_RATE	Class_2	Variation 6	Variation 8
765	Station_1.ENERGY_RATE	Class_2	Variation 6	Variation 8
766	Station_2.UVOL_RATE	Class_2	Variation 6	Variation 8
767	Station_2.SVOL_RATE	Class_2	Variation 6	Variation 8
768	Station_2.MASS_RATE	Class_2	Variation 6	Variation 8
769	Station_2.ENERGY_RATE	Class_2	Variation 6	Variation 8
770	Station_3.UVOL_RATE	Class_2	Variation 6	Variation 8
771	Station_3.SVOL_RATE	Class_2	Variation 6	Variation 8
772	Station_3.MASS_RATE	Class_2	Variation 6	Variation 8
773	Station_3.ENERGY_RATE	Class_2	Variation 6	Variation 8
774	Station_4.UVOL_RATE	Class_2	Variation 6	Variation 8
775	Station_4.SVOL_RATE	Class_2	Variation 6	Variation 8

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
776	Station_4.MASS_RATE	Class_2	Variation 6	Variation 8
777	Station_4.ENERGY_RATE	Class_2	Variation 6	Variation 8
778	Station_5.UVOL_RATE	Class_2	Variation 6	Variation 8
779	Station_5.SVOL_RATE	Class_2	Variation 6	Variation 8
780	Station_5.MASS_RATE	Class_2	Variation 6	Variation 8
781	Station_5.ENERGY_RATE	Class_2	Variation 6	Variation 8
782	Station_6.UVOL_RATE	Class_2	Variation 6	Variation 8
783	Station_6.SVOL_RATE	Class_2	Variation 6	Variation 8
784	Station_6.MASS_RATE	Class_2	Variation 6	Variation 8
785	Station_6.ENERGY_RATE	Class_2	Variation 6	Variation 8
786	Station_7.UVOL_RATE	Class_2	Variation 6	Variation 8
787	Station_7.SVOL_RATE	Class_2	Variation 6	Variation 8
788	Station_7.MASS_RATE	Class_2	Variation 6	Variation 8
789	Station_7.ENERGY_RATE	Class_2	Variation 6	Variation 8
790	Station_8.UVOL_RATE	Class_2	Variation 6	Variation 8
791	Station_8.SVOL_RATE	Class_2	Variation 6	Variation 8
792	Station_8.MASS_RATE	Class_2	Variation 6	Variation 8
793	Station_8.ENERGY_RATE	Class_2	Variation 6	Variation 8
794	Station_9.UVOL_RATE	Class_2	Variation 6	Variation 8
795	Station_9.SVOL_RATE	Class_2	Variation 6	Variation 8
796	Station_9.MASS_RATE	Class_2	Variation 6	Variation 8
797	Station_9.ENERGY_RATE	Class_2	Variation 6	Variation 8
798	Station_10.UVOL_RATE	Class_2	Variation 6	Variation 8
799	Station_10.SVOL_RATE	Class_2	Variation 6	Variation 8
800	Station_10.MASS_RATE	Class_2	Variation 6	Variation 8
801	Station_10.ENERGY_RATE	Class_2	Variation 6	Variation 8
802	Station_11.UVOL_RATE	Class_2	Variation 6	Variation 8
803	Station_11.SVOL_RATE	Class_2	Variation 6	Variation 8
804	Station_11.MASS_RATE	Class_2	Variation 6	Variation 8
805	Station_11.ENERGY_RATE	Class_2	Variation 6	Variation 8
806	Station_12.UVOL_RATE	Class_2	Variation 6	Variation 8
807	Station_12.SVOL_RATE	Class_2	Variation 6	Variation 8

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808	Station_12.MASS_RATE	Class_2	Variation 6	Variation 8
809	Station_12.ENERGY_RATE	Class_2	Variation 6	Variation 8
810	Station_13.UVOL_RATE	Class_2	Variation 6	Variation 8
811	Station_13.SVOL_RATE	Class_2	Variation 6	Variation 8
812	Station_13.MASS_RATE	Class_2	Variation 6	Variation 8
813	Station_13.ENERGY_RATE	Class_2	Variation 6	Variation 8
814	Station_14.UVOL_RATE	Class_2	Variation 6	Variation 8
815	Station_14.SVOL_RATE	Class_2	Variation 6	Variation 8
816	Station_14.MASS_RATE	Class_2	Variation 6	Variation 8
817	Station_14.ENERGY_RATE	Class_2	Variation 6	Variation 8
818	Station_15.UVOL_RATE	Class_2	Variation 6	Variation 8
819	Station_15.SVOL_RATE	Class_2	Variation 6	Variation 8
820	Station_15.MASS_RATE	Class_2	Variation 6	Variation 8
821	Station_15.ENERGY_RATE	Class_2	Variation 6	Variation 8
822	Station_16.UVOL_RATE	Class_2	Variation 6	Variation 8
823	Station_16.SVOL_RATE	Class_2	Variation 6	Variation 8
824	Station_16.MASS_RATE	Class_2	Variation 6	Variation 8
825	Station_16.ENERGY_RATE	Class_2	Variation 6	Variation 8
826	Station_17.UVOL_RATE	Class_2	Variation 6	Variation 8
827	Station_17.SVOL_RATE	Class_2	Variation 6	Variation 8
828	Station_17.MASS_RATE	Class_2	Variation 6	Variation 8
829	Station_17.ENERGY_RATE	Class_2	Variation 6	Variation 8
830	Station_18.UVOL_RATE	Class_2	Variation 6	Variation 8
831	Station_18.SVOL_RATE	Class_2	Variation 6	Variation 8
832	Station_18.MASS_RATE	Class_2	Variation 6	Variation 8
833	Station_18.ENERGY_RATE	Class_2	Variation 6	Variation 8
834	Station_19.UVOL_RATE	Class_2	Variation 6	Variation 8
835	Station_19.SVOL_RATE	Class_2	Variation 6	Variation 8
836	Station_19.MASS_RATE	Class_2	Variation 6	Variation 8
837	Station_19.ENERGY_RATE	Class_2	Variation 6	Variation 8
838	Station_20.UVOL_RATE	Class_2	Variation 6	Variation 8
839	Station_20.SVOL_RATE	Class_2	Variation 6	Variation 8

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
840	Station_20.MASS_RATE	Class_2	Variation 6	Variation 8
841	Station_20.ENERGY_RATE	Class_2	Variation 6	Variation 8
842	Station_21.UVOL_RATE	Class_2	Variation 6	Variation 8
843	Station_21.SVOL_RATE	Class_2	Variation 6	Variation 8
844	Station_21.MASS_RATE	Class_2	Variation 6	Variation 8
845	Station_21.ENERGY_RATE	Class_2	Variation 6	Variation 8
846	Station_22.UVOL_RATE	Class_2	Variation 6	Variation 8
847	Station_22.SVOL_RATE	Class_2	Variation 6	Variation 8
848	Station_22.MASS_RATE	Class_2	Variation 6	Variation 8
849	Station_22.ENERGY_RATE	Class_2	Variation 6	Variation 8
850	Station_23.UVOL_RATE	Class_2	Variation 6	Variation 8
851	Station_23.SVOL_RATE	Class_2	Variation 6	Variation 8
852	Station_23.MASS_RATE	Class_2	Variation 6	Variation 8
853	Station_23.ENERGY_RATE	Class_2	Variation 6	Variation 8
854	Station_24.UVOL_RATE	Class_2	Variation 6	Variation 8
855	Station_24.SVOL_RATE	Class_2	Variation 6	Variation 8
856	Station_24.MASS_RATE	Class_2	Variation 6	Variation 8
857	Station_24.ENERGY_RATE	Class_2	Variation 6	Variation 8
858	DP_1-1.SELECTED	Class_2	Variation 5	Variation 7
859	DP_1-2.SELECTED	Class_2	Variation 5	Variation 7
860	DP_1-3.SELECTED	Class_2	Variation 5	Variation 7
861	DP_1-4.SELECTED	Class_2	Variation 5	Variation 7
862	DP_1-5.SELECTED	Class_2	Variation 5	Variation 7
863	DP_1-6.SELECTED	Class_2	Variation 5	Variation 7
864	DP_1-7.SELECTED	Class_2	Variation 5	Variation 7
865	DP_1-8.SELECTED	Class_2	Variation 5	Variation 7
866	DP_1-9.SELECTED	Class_2	Variation 5	Variation 7
867	DP_1-10.SELECTED	Class_2	Variation 5	Variation 7
868	DP_1-11.SELECTED	Class_2	Variation 5	Variation 7
869	DP_1-12.SELECTED	Class_2	Variation 5	Variation 7
870	DP_1-13.SELECTED	Class_2	Variation 5	Variation 7
871	DP_1-14.SELECTED	Class_2	Variation 5	Variation 7

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872	DP_1-15.SELECTED	Class_2	Variation 5	Variation 7
873	DP_1-16.SELECTED	Class_2	Variation 5	Variation 7
874	DP_1-17.SELECTED	Class_2	Variation 5	Variation 7
875	DP_1-18.SELECTED	Class_2	Variation 5	Variation 7
876	DP_1-19.SELECTED	Class_2	Variation 5	Variation 7
877	DP_1-20.SELECTED	Class_2	Variation 5	Variation 7
878	Press_1-1.SELECTED	Class_2	Variation 5	Variation 7
879	Press_1-2.SELECTED	Class_2	Variation 5	Variation 7
880	Press_1-3.SELECTED	Class_2	Variation 5	Variation 7
881	Press_1-4.SELECTED	Class_2	Variation 5	Variation 7
882	Press_1-5.SELECTED	Class_2	Variation 5	Variation 7
883	Press_1-6.SELECTED	Class_2	Variation 5	Variation 7
884	Press_1-7.SELECTED	Class_2	Variation 5	Variation 7
885	Press_1-8.SELECTED	Class_2	Variation 5	Variation 7
886	Press_1-9.SELECTED	Class_2	Variation 5	Variation 7
887	Press_1-10.SELECTED	Class_2	Variation 5	Variation 7
888	Press_1-11.SELECTED	Class_2	Variation 5	Variation 7
889	Press_1-12.SELECTED	Class_2	Variation 5	Variation 7
890	Press_1-13.SELECTED	Class_2	Variation 5	Variation 7
891	Press_1-14.SELECTED	Class_2	Variation 5	Variation 7
892	Press_1-15.SELECTED	Class_2	Variation 5	Variation 7
893	Press_1-16.SELECTED	Class_2	Variation 5	Variation 7
894	Press_1-17.SELECTED	Class_2	Variation 5	Variation 7
895	Press_1-18.SELECTED	Class_2	Variation 5	Variation 7
896	Press_1-19.SELECTED	Class_2	Variation 5	Variation 7
897	Press_1-20.SELECTED	Class_2	Variation 5	Variation 7
898	RTD_1-1.SELECTED	Class_2	Variation 5	Variation 7
899	RTD_1-2.SELECTED	Class_2	Variation 5	Variation 7
900	RTD_1-3.SELECTED	Class_2	Variation 5	Variation 7
901	RTD_1-4.SELECTED	Class_2	Variation 5	Variation 7
902	RTD_1-5.SELECTED	Class_2	Variation 5	Variation 7
903	RTD_1-6.SELECTED	Class_2	Variation 5	Variation 7

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
904	RTD_1-7.SELECTED	Class_2	Variation 5	Variation 7
905	RTD_1-8.SELECTED	Class_2	Variation 5	Variation 7
906	RTD_1-9.SELECTED	Class_2	Variation 5	Variation 7
907	RTD_1-10.SELECTED	Class_2	Variation 5	Variation 7
908	RTD_1-11.SELECTED	Class_2	Variation 5	Variation 7
909	RTD_1-12.SELECTED	Class_2	Variation 5	Variation 7
910	RTD_1-13.SELECTED	Class_2	Variation 5	Variation 7
911	RTD_1-14.SELECTED	Class_2	Variation 5	Variation 7
912	RTD_1-15.SELECTED	Class_2	Variation 5	Variation 7
913	RTD_1-16.SELECTED	Class_2	Variation 5	Variation 7
914	RTD_1-17.SELECTED	Class_2	Variation 5	Variation 7
915	RTD_1-18.SELECTED	Class_2	Variation 5	Variation 7
916	RTD_1-19.SELECTED	Class_2	Variation 5	Variation 7
917	RTD_1-20.SELECTED	Class_2	Variation 5	Variation 7
918	AI_2-1.SELECTED	Class_2	Variation 5	Variation 7
919	AI_2-1.INPUT_STATUS	Class_1	Variation 2	Variation 4
920	AI_2-2.SELECTED	Class_2	Variation 5	Variation 7
921	AI_2-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
922	AI_2-3.SELECTED	Class_2	Variation 5	Variation 7
923	AI_2-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
924	AI_2-4.SELECTED	Class_2	Variation 5	Variation 7
925	AI_2-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
926	AI_2-5.SELECTED	Class_2	Variation 5	Variation 7
927	AI_2-5.INPUT_STATUS	Class_1	Variation 2	Variation 4
928	AI_2-6.SELECTED	Class_2	Variation 5	Variation 7
929	AI_2-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
930	AI_2-7.SELECTED	Class_2	Variation 5	Variation 7
931	AI_2-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
932	AI_2-8.SELECTED	Class_2	Variation 5	Variation 7
933	AI_2-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
934	AI_3-1.SELECTED	Class_2	Variation 5	Variation 7
935	AI_3-1.INPUT_STATUS	Class_1	Variation 2	Variation 4

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936	AI_3-2.SELECTED	Class_2	Variation 5	Variation 7
937	AI_3-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
938	AI_3-3.SELECTED	Class_2	Variation 5	Variation 7
939	AI_3-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
940	AI_3-4.SELECTED	Class_2	Variation 5	Variation 7
941	AI_3-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
942	AI_3-5.SELECTED	Class_2	Variation 5	Variation 7
943	AI_3-5.INPUT_STATUS	Class_1	Variation 2	Variation 4
944	AI_3-6.SELECTED	Class_2	Variation 5	Variation 7
945	AI_3-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
946	AI_3-7.SELECTED	Class_2	Variation 5	Variation 7
947	AI_3-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
948	AI_3-8.SELECTED	Class_2	Variation 5	Variation 7
949	AI_3-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
950	AI_4-1.SELECTED	Class_2	Variation 5	Variation 7
951	AI_4-1.INPUT_STATUS	Class_1	Variation 2	Variation 4
952	AI_4-2.SELECTED	Class_2	Variation 5	Variation 7
953	AI_4-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
954	AI_4-3.SELECTED	Class_2	Variation 5	Variation 7
955	AI_4-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
956	AI_4-4.SELECTED	Class_2	Variation 5	Variation 7
957	AI_4-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
958	AI_4-5.SELECTED	Class_2	Variation 5	Variation 7
959	AI_4-5.INPUT_STATUS	Class_1	Variation 2	Variation 4
960	AI_4-6.SELECTED	Class_2	Variation 5	Variation 7
961	AI_4-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
962	AI_4-7.SELECTED	Class_2	Variation 5	Variation 7
963	AI_4-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
964	AI_4-8.SELECTED	Class_2	Variation 5	Variation 7
965	AI_4-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
966	AI_5-1.SELECTED	Class_2	Variation 5	Variation 7
967	AI_5-1.INPUT_STATUS	Class_1	Variation 2	Variation 4



Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
968	AI_5-2.SELECTED	Class_2	Variation 5	Variation 7
969	AI_5-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
970	AI_5-3.SELECTED	Class_2	Variation 5	Variation 7
971	AI_5-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
972	AI_5-4.SELECTED	Class_2	Variation 5	Variation 7
973	AI_5-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
974	AI_5-5.SELECTED	Class_2	Variation 5	Variation 7
975	AI_5-5.INPUT_STATUS	Class_1	Variation 2	Variation 4
976	AI_5-6.SELECTED	Class_2	Variation 5	Variation 7
977	AI_5-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
978	AI_5-7.SELECTED	Class_2	Variation 5	Variation 7
979	AI_5-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
980	AI_5-8.SELECTED	Class_2	Variation 5	Variation 7
981	AI_5-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
982	AI_6-1.SELECTED	Class_2	Variation 5	Variation 7
983	AI_6-1.INPUT_STATUS	Class_1	Variation 2	Variation 4
984	AI_6-2.SELECTED	Class_2	Variation 5	Variation 7
985	AI_6-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
986	AI_6-3.SELECTED	Class_2	Variation 5	Variation 7
987	AI_6-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
988	AI_6-4.SELECTED	Class_2	Variation 5	Variation 7
989	AI_6-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
990	AI_6-5.SELECTED	Class_2	Variation 5	Variation 7
991	AI_6-5.INPUT_STATUS	Class_1	Variation 2	Variation 4
992	AI_6-6.SELECTED	Class_2	Variation 5	Variation 7
993	AI_6-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
994	AI_6-7.SELECTED	Class_2	Variation 5	Variation 7
995	AI_6-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
996	AI_6-8.SELECTED	Class_2	Variation 5	Variation 7
997	AI_6-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
998	AI_7-1.SELECTED	Class_2	Variation 5	Variation 7
999	AI_7-1.INPUT_STATUS	Class_1	Variation 2	Variation 4

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1000	AI_7-2.SELECTED	Class_2	Variation 5	Variation 7
1001	AI_7-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
1002	AI_7-3.SELECTED	Class_2	Variation 5	Variation 7
1003	AI_7-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
1004	AI_7-4.SELECTED	Class_2	Variation 5	Variation 7
1005	AI_7-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
1006	AI_7-5.SELECTED	Class_2	Variation 5	Variation 7
1007	AI_7-5.INPUT_STATUS	Class_1	Variation 2	Variation 4
1008	AI_7-6.SELECTED	Class_2	Variation 5	Variation 7
1009	AI_7-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
1010	AI_7-7.SELECTED	Class_2	Variation 5	Variation 7
1011	AI_7-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
1012	AI_7-8.SELECTED	Class_2	Variation 5	Variation 7
1013	AI_7-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
1014	AI_8-1.SELECTED	Class_2	Variation 5	Variation 7
1015	AI_8-1.INPUT_STATUS	Class_1	Variation 2	Variation 4
1016	AI_8-2.SELECTED	Class_2	Variation 5	Variation 7
1017	AI_8-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
1018	AI_8-3.SELECTED	Class_2	Variation 5	Variation 7
1019	AI_8-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
1020	AI_8-4.SELECTED	Class_2	Variation 5	Variation 7
1021	AI_8-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
1022	AI_8-5.SELECTED	Class_2	Variation 5	Variation 7
1023	AI_8-5.INPUT_STATUS	Class_1	Variation 2	Variation 4
1024	AI_8-6.SELECTED	Class_2	Variation 5	Variation 7
1025	AI_8-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
1026	AI_8-7.SELECTED	Class_2	Variation 5	Variation 7
1027	AI_8-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
1028	AI_8-8.SELECTED	Class_2	Variation 5	Variation 7
1029	AI_8-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
1030	DI_2-1.INPUT_STATUS	Class_1	Variation 2	Variation 4
1031	DI_2-2.INPUT_STATUS	Class_1	Variation 2	Variation 4

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
1032	DI_2-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
1033	DI_2-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
1034	DI_2-5.INPUT_STATUS	Class_1	Variation 2	Variation 4
1035	DI_2-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
1036	DI_2-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
1037	DI_2-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
1038	DI_3-1.INPUT_STATUS	Class_1	Variation 2	Variation 4
1039	DI_3-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
1040	DI_3-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
1041	DI_3-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
1042	DI_3-5.INPUT_STATUS	Class_1	Variation 2	Variation 4
1043	DI_3-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
1044	DI_3-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
1045	DI_3-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
1046	DI_4-1.INPUT_STATUS	Class_1	Variation 2	Variation 4
1047	DI_4-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
1048	DI_4-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
1049	DI_4-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
1050	DI_4-5.INPUT_STATUS	Class_1	Variation 2	Variation 4
1051	DI_4-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
1052	DI_4-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
1053	DI_4-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
1054	DI_5-1.INPUT_STATUS	Class_1	Variation 2	Variation 4
1055	DI_5-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
1056	DI_5-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
1057	DI_5-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
1058	DI_5-5.INPUT_STATUS	Class_1	Variation 2	Variation 4
1059	DI_5-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
1060	DI_5-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
1061	DI_5-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
1062	DI_6-1.INPUT_STATUS	Class_1	Variation 2	Variation 4
1063	DI_6-2.INPUT_STATUS	Class_1	Variation 2	Variation 4

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Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
1064	DI_6-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
1065	DI_6-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
1066	DI_6-5.INPUT_STATUS	Class_1	Variation 2	Variation 4
1067	DI_6-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
1068	DI_6-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
1069	DI_6-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
1070	DI_7-1.INPUT_STATUS	Class_1	Variation 2	Variation 4
1071	DI_7-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
1072	DI_7-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
1073	DI_7-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
1074	DI_7-5.INPUT_STATUS	Class_1	Variation 2	Variation 4
1075	DI_7-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
1076	DI_7-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
1077	DI_7-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
1078	DI_8-1.INPUT_STATUS	Class_1	Variation 2	Variation 4
1079	DI_8-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
1080	DI_8-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
1081	DI_8-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
1082	DI_8-5.INPUT_STATUS	Class_1	Variation 2	Variation 4
1083	DI_8-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
1084	DI_8-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
1085	DI_8-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
1086	PI_2-1.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1087	PI_2-1.INPUT_STATUS	Class_1	Variation 2	Variation 4
1088	PI_2-2.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1089	PI_2-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
1090	PI_2-3.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1091	PI_2-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
1092	PI_2-4.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1093	PI_2-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
1094	PI_2-5.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1095	PI_2-5.INPUT_STATUS	Class_1	Variation 2	Variation 4

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
1096	PI_2-6.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1097	PI_2-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
1098	PI_2-7.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1099	PI_2-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
1100	PI_2-8.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1101	PI_2-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
1102	PI_3-1.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1103	PI_3-1.INPUT_STATUS	Class_1	Variation 2	Variation 4
1104	PI_3-2.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1105	PI_3-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
1106	PI_3-3.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1107	PI_3-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
1108	PI_3-4.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1109	PI_3-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
1110	PI_3-5.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1111	PI_3-5.INPUT_STATUS	Class_1	Variation 2	Variation 4
1112	PI_3-6.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1113	PI_3-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
1114	PI_3-7.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1115	PI_3-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
1116	PI_3-8.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1117	PI_3-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
1118	PI_4-1.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1119	PI_4-1.INPUT_STATUS	Class_1	Variation 2	Variation 4
1120	PI_4-2.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1121	PI_4-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
1122	PI_4-3.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1123	PI_4-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
1124	PI_4-4.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1125	PI_4-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
1126	PI_4-5.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1127	PI_4-5.INPUT_STATUS	Class_1	Variation 2	Variation 4

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1128	PI_4-6.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1129	PI_4-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
1130	PI_4-7.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1131	PI_4-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
1132	PI_4-8.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1133	PI_4-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
1134	PI_5-1.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1135	PI_5-1.INPUT_STATUS	Class_1	Variation 2	Variation 4
1136	PI_5-2.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1137	PI_5-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
1138	PI_5-3.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1139	PI_5-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
1140	PI_5-4.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1141	PI_5-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
1142	PI_5-5.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1143	PI_5-5.INPUT_STATUS	Class_1	Variation 2	Variation 4
1144	PI_5-6.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1145	PI_5-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
1146	PI_5-7.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1147	PI_5-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
1148	PI_5-8.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1149	PI_5-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
1150	PI_6-1.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1151	PI_6-1.INPUT_STATUS	Class_1	Variation 2	Variation 4
1152	PI_6-2.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1153	PI_6-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
1154	PI_6-3.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1155	PI_6-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
1156	PI_6-4.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1157	PI_6-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
1158	PI_6-5.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1159	PI_6-5.INPUT_STATUS	Class_1	Variation 2	Variation 4

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
1160	PI_6-6.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1161	PI_6-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
1162	PI_6-7.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1163	PI_6-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
1164	PI_6-8.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1165	PI_6-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
1166	PI_7-1.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1167	PI_7-1.INPUT_STATUS	Class_1	Variation 2	Variation 4
1168	PI_7-2.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1169	PI_7-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
1170	PI_7-3.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1171	PI_7-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
1172	PI_7-4.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1173	PI_7-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
1174	PI_7-5.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1175	PI_7-5.INPUT_STATUS	Class_1	Variation 2	Variation 4
1176	PI_7-6.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1177	PI_7-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
1178	PI_7-7.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1179	PI_7-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
1180	PI_7-8.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1181	PI_7-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
1182	PI_8-1.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1183	PI_8-1.INPUT_STATUS	Class_1	Variation 2	Variation 4
1184	PI_8-2.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1185	PI_8-2.INPUT_STATUS	Class_1	Variation 2	Variation 4
1186	PI_8-3.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1187	PI_8-3.INPUT_STATUS	Class_1	Variation 2	Variation 4
1188	PI_8-4.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1189	PI_8-4.INPUT_STATUS	Class_1	Variation 2	Variation 4
1190	PI_8-5.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1191	PI_8-5.INPUT_STATUS	Class_1	Variation 2	Variation 4

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1192	PI_8-6.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1193	PI_8-6.INPUT_STATUS	Class_1	Variation 2	Variation 4
1194	PI_8-7.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1195	PI_8-7.INPUT_STATUS	Class_1	Variation 2	Variation 4
1196	PI_8-8.SELECTED_FREQ	Class_2	Variation 5	Variation 7
1197	PI_8-8.INPUT_STATUS	Class_1	Variation 2	Variation 4
1198	AO_2-1.SELECTED	Class_2	Variation 5	Variation 7
1199	AO_2-1.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1200	AO_2-2.SELECTED	Class_2	Variation 5	Variation 7
1201	AO_2-2.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1202	AO_3-1.SELECTED	Class_2	Variation 5	Variation 7
1203	AO_3-1.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1204	AO_3-2.SELECTED	Class_2	Variation 5	Variation 7
1205	AO_3-2.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1206	AO_4-1.SELECTED	Class_2	Variation 5	Variation 7
1207	AO_4-1.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1208	AO_4-2.SELECTED	Class_2	Variation 5	Variation 7
1209	AO_4-2.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1210	AO_5-1.SELECTED	Class_2	Variation 5	Variation 7
1211	AO_5-1.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1212	AO_5-2.SELECTED	Class_2	Variation 5	Variation 7
1213	AO_5-2.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1214	AO_6-1.SELECTED	Class_2	Variation 5	Variation 7
1215	AO_6-1.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1216	AO_6-2.SELECTED	Class_2	Variation 5	Variation 7
1217	AO_6-2.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1218	AO_7-1.SELECTED	Class_2	Variation 5	Variation 7
1219	AO_7-1.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1220	AO_7-2.SELECTED	Class_2	Variation 5	Variation 7
1221	AO_7-2.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1222	AO_8-1.SELECTED	Class_2	Variation 5	Variation 7
1223	AO_8-1.OUTPUT_STATUS	Class_1	Variation 2	Variation 4



Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
1224	AO_8-2.SELECTED	Class_2	Variation 5	Variation 7
1225	AO_8-2.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1226	DO_2-1.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1227	DO_2-2.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1228	DO_3-1.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1229	DO_3-2.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1230	DO_4-1.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1231	DO_4-2.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1232	DO_5-1.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1233	DO_5-2.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1234	DO_6-1.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1235	DO_6-2.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1236	DO_7-1.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1237	DO_7-2.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1238	DO_8-1.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1239	DO_8-2.OUTPUT_STATUS	Class_1	Variation 2	Variation 4
1240	PID_1.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1241	PID_1.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1242	PID_1.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1243	PID_2.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1244	PID_2.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1245	PID_2.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1246	PID_3.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1247	PID_3.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1248	PID_3.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1249	PID_4.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1250	PID_4.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1251	PID_4.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1252	PID_5.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1253	PID_5.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1254	PID_5.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1255	PID_6.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7

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1256	PID_6.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1257	PID_6.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1258	PID_7.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1259	PID_7.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1260	PID_7.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1261	PID_8.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1262	PID_8.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1263	PID_8.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1264	PID_9.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1265	PID_9.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1266	PID_9.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1267	PID_10.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1268	PID_10.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1269	PID_10.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1270	PID_11.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1271	PID_11.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1272	PID_11.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1273	PID_12.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1274	PID_12.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1275	PID_12.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1276	PID_13.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1277	PID_13.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1278	PID_13.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1279	PID_14.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1280	PID_14.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1281	PID_14.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1282	PID_15.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1283	PID_15.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1284	PID_15.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1285	PID_16.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1286	PID_16.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1287	PID_16.SELECTED_LOOP	Class_3	Variation 2	Variation 4

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
1288	PID_17.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1289	PID_17.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1290	PID_17.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1291	PID_18.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1292	PID_18.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1293	PID_18.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1294	PID_19.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1295	PID_19.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1296	PID_19.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1297	PID_20.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1298	PID_20.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1299	PID_20.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1300	PID_21.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1301	PID_21.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1302	PID_21.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1303	PID_22.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1304	PID_22.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1305	PID_22.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1306	PID_23.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1307	PID_23.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1308	PID_23.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1309	PID_24.P_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1310	PID_24.O_PROCESS_VARIABLE	Class_2	Variation 5	Variation 7
1311	PID_24.SELECTED_LOOP	Class_3	Variation 2	Variation 4
1312	Components_1.C1_LIVE	Class_3	Variation 6	Variation 8
1313	Components_1.N2_LIVE	Class_3	Variation 6	Variation 8
1314	Components_1.CO2_LIVE	Class_3	Variation 6	Variation 8
1315	Components_1.C2_LIVE	Class_3	Variation 6	Variation 8
1316	Components_1.C3_LIVE	Class_3	Variation 6	Variation 8
1317	Components_1.H2O_LIVE	Class_3	Variation 6	Variation 8
1318	Components_1.H2S_LIVE	Class_3	Variation 6	Variation 8
1319	Components_1.H2_LIVE	Class_3	Variation 6	Variation 8

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1320	Components_1.CO_LIVE	Class_3	Variation 6	Variation 8
1321	Components_1.O2_LIVE	Class_3	Variation 6	Variation 8
1322	Components_1.IC4_LIVE	Class_3	Variation 6	Variation 8
1323	Components_1.NC4_LIVE	Class_3	Variation 6	Variation 8
1324	Components_1.IC5_LIVE	Class_3	Variation 6	Variation 8
1325	Components_1.NC5_LIVE	Class_3	Variation 6	Variation 8
1326	Components_1.C6_LIVE	Class_3	Variation 6	Variation 8
1327	Components_1.C7_LIVE	Class_3	Variation 6	Variation 8
1328	Components_1.C8_LIVE	Class_3	Variation 6	Variation 8
1329	Components_1.C9_LIVE	Class_3	Variation 6	Variation 8
1330	Components_1.C10_LIVE	Class_3	Variation 6	Variation 8
1331	Components_1.HE_LIVE	Class_3	Variation 6	Variation 8
1332	Components_1.AR_LIVE	Class_3	Variation 6	Variation 8
1333	Components_1.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1334	Components_1.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1335	Components_1.TOLUENE_LIVE	Class_3	Variation 6	Variation 8
1336	Components_2.C1_LIVE	Class_3	Variation 6	Variation 8
1337	Components_2.N2_LIVE	Class_3	Variation 6	Variation 8
1338	Components_2.CO2_LIVE	Class_3	Variation 6	Variation 8
1339	Components_2.C2_LIVE	Class_3	Variation 6	Variation 8
1340	Components_2.C3_LIVE	Class_3	Variation 6	Variation 8
1341	Components_2.H2O_LIVE	Class_3	Variation 6	Variation 8
1342	Components_2.H2S_LIVE	Class_3	Variation 6	Variation 8
1343	Components_2.H2_LIVE	Class_3	Variation 6	Variation 8
1344	Components_2.CO_LIVE	Class_3	Variation 6	Variation 8
1345	Components_2.O2_LIVE	Class_3	Variation 6	Variation 8
1346	Components_2.IC4_LIVE	Class_3	Variation 6	Variation 8
1347	Components_2.NC4_LIVE	Class_3	Variation 6	Variation 8
1348	Components_2.IC5_LIVE	Class_3	Variation 6	Variation 8
1349	Components_2.NC5_LIVE	Class_3	Variation 6	Variation 8
1350	Components_2.C6_LIVE	Class_3	Variation 6	Variation 8
1351	Components_2.C7_LIVE	Class_3	Variation 6	Variation 8

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
1352	Components_2.C8_LIVE	Class_3	Variation 6	Variation 8
1353	Components_2.C9_LIVE	Class_3	Variation 6	Variation 8
1354	Components_2.C10_LIVE	Class_3	Variation 6	Variation 8
1355	Components_2.HE_LIVE	Class_3	Variation 6	Variation 8
1356	Components_2.AR_LIVE	Class_3	Variation 6	Variation 8
1357	Components_2.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1358	Components_2.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1359	Components_2.TOLUENE_LIVE	Class_3	Variation 6	Variation 8
1360	Components_3.C1_LIVE	Class_3	Variation 6	Variation 8
1361	Components_3.N2_LIVE	Class_3	Variation 6	Variation 8
1362	Components_3.CO2_LIVE	Class_3	Variation 6	Variation 8
1363	Components_3.C2_LIVE	Class_3	Variation 6	Variation 8
1364	Components_3.C3_LIVE	Class_3	Variation 6	Variation 8
1365	Components_3.H2O_LIVE	Class_3	Variation 6	Variation 8
1366	Components_3.H2S_LIVE	Class_3	Variation 6	Variation 8
1367	Components_3.H2_LIVE	Class_3	Variation 6	Variation 8
1368	Components_3.CO_LIVE	Class_3	Variation 6	Variation 8
1369	Components_3.O2_LIVE	Class_3	Variation 6	Variation 8
1370	Components_3.IC4_LIVE	Class_3	Variation 6	Variation 8
1371	Components_3.NC4_LIVE	Class_3	Variation 6	Variation 8
1372	Components_3.IC5_LIVE	Class_3	Variation 6	Variation 8
1373	Components_3.NC5_LIVE	Class_3	Variation 6	Variation 8
1374	Components_3.C6_LIVE	Class_3	Variation 6	Variation 8
1375	Components_3.C7_LIVE	Class_3	Variation 6	Variation 8
1376	Components_3.C8_LIVE	Class_3	Variation 6	Variation 8
1377	Components_3.C9_LIVE	Class_3	Variation 6	Variation 8
1378	Components_3.C10_LIVE	Class_3	Variation 6	Variation 8
1379	Components_3.HE_LIVE	Class_3	Variation 6	Variation 8
1380	Components_3.AR_LIVE	Class_3	Variation 6	Variation 8
1381	Components_3.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1382	Components_3.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1383	Components_3.TOLUENE_LIVE	Class_3	Variation 6	Variation 8

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1384	Components_4.C1_LIVE	Class_3	Variation 6	Variation 8
1385	Components_4.N2_LIVE	Class_3	Variation 6	Variation 8
1386	Components_4.CO2_LIVE	Class_3	Variation 6	Variation 8
1387	Components_4.C2_LIVE	Class_3	Variation 6	Variation 8
1388	Components_4.C3_LIVE	Class_3	Variation 6	Variation 8
1389	Components_4.H2O_LIVE	Class_3	Variation 6	Variation 8
1390	Components_4.H2S_LIVE	Class_3	Variation 6	Variation 8
1391	Components_4.H2_LIVE	Class_3	Variation 6	Variation 8
1392	Components_4.CO_LIVE	Class_3	Variation 6	Variation 8
1393	Components_4.O2_LIVE	Class_3	Variation 6	Variation 8
1394	Components_4.IC4_LIVE	Class_3	Variation 6	Variation 8
1395	Components_4.NC4_LIVE	Class_3	Variation 6	Variation 8
1396	Components_4.IC5_LIVE	Class_3	Variation 6	Variation 8
1397	Components_4.NC5_LIVE	Class_3	Variation 6	Variation 8
1398	Components_4.C6_LIVE	Class_3	Variation 6	Variation 8
1399	Components_4.C7_LIVE	Class_3	Variation 6	Variation 8
1400	Components_4.C8_LIVE	Class_3	Variation 6	Variation 8
1401	Components_4.C9_LIVE	Class_3	Variation 6	Variation 8
1402	Components_4.C10_LIVE	Class_3	Variation 6	Variation 8
1403	Components_4.HE_LIVE	Class_3	Variation 6	Variation 8
1404	Components_4.AR_LIVE	Class_3	Variation 6	Variation 8
1405	Components_4.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1406	Components_4.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1407	Components_4.TOLUENE_LIVE	Class_3	Variation 6	Variation 8
1408	Components_5.C1_LIVE	Class_3	Variation 6	Variation 8
1409	Components_5.N2_LIVE	Class_3	Variation 6	Variation 8
1410	Components_5.CO2_LIVE	Class_3	Variation 6	Variation 8
1411	Components_5.C2_LIVE	Class_3	Variation 6	Variation 8
1412	Components_5.C3_LIVE	Class_3	Variation 6	Variation 8
1413	Components_5.H2O_LIVE	Class_3	Variation 6	Variation 8
1414	Components_5.H2S_LIVE	Class_3	Variation 6	Variation 8
1415	Components_5.H2_LIVE	Class_3	Variation 6	Variation 8

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1416	Components_5.CO_LIVE	Class_3	Variation 6	Variation 8
1417	Components_5.O2_LIVE	Class_3	Variation 6	Variation 8
1418	Components_5.IC4_LIVE	Class_3	Variation 6	Variation 8
1419	Components_5.NC4_LIVE	Class_3	Variation 6	Variation 8
1420	Components_5.IC5_LIVE	Class_3	Variation 6	Variation 8
1421	Components_5.NC5_LIVE	Class_3	Variation 6	Variation 8
1422	Components_5.C6_LIVE	Class_3	Variation 6	Variation 8
1423	Components_5.C7_LIVE	Class_3	Variation 6	Variation 8
1424	Components_5.C8_LIVE	Class_3	Variation 6	Variation 8
1425	Components_5.C9_LIVE	Class_3	Variation 6	Variation 8
1426	Components_5.C10_LIVE	Class_3	Variation 6	Variation 8
1427	Components_5.HE_LIVE	Class_3	Variation 6	Variation 8
1428	Components_5.AR_LIVE	Class_3	Variation 6	Variation 8
1429	Components_5.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1430	Components_5.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1431	Components_5.TOLUENE_LIVE	Class_3	Variation 6	Variation 8
1432	Components_6.C1_LIVE	Class_3	Variation 6	Variation 8
1433	Components_6.N2_LIVE	Class_3	Variation 6	Variation 8
1434	Components_6.CO2_LIVE	Class_3	Variation 6	Variation 8
1435	Components_6.C2_LIVE	Class_3	Variation 6	Variation 8
1436	Components_6.C3_LIVE	Class_3	Variation 6	Variation 8
1437	Components_6.H2O_LIVE	Class_3	Variation 6	Variation 8
1438	Components_6.H2S_LIVE	Class_3	Variation 6	Variation 8
1439	Components_6.H2_LIVE	Class_3	Variation 6	Variation 8
1440	Components_6.CO_LIVE	Class_3	Variation 6	Variation 8
1441	Components_6.O2_LIVE	Class_3	Variation 6	Variation 8
1442	Components_6.IC4_LIVE	Class_3	Variation 6	Variation 8
1443	Components_6.NC4_LIVE	Class_3	Variation 6	Variation 8
1444	Components_6.IC5_LIVE	Class_3	Variation 6	Variation 8
1445	Components_6.NC5_LIVE	Class_3	Variation 6	Variation 8
1446	Components_6.C6_LIVE	Class_3	Variation 6	Variation 8
1447	Components_6.C7_LIVE	Class_3	Variation 6	Variation 8

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1448	Components_6.C8_LIVE	Class_3	Variation 6	Variation 8
1449	Components_6.C9_LIVE	Class_3	Variation 6	Variation 8
1450	Components_6.C10_LIVE	Class_3	Variation 6	Variation 8
1451	Components_6.HE_LIVE	Class_3	Variation 6	Variation 8
1452	Components_6.AR_LIVE	Class_3	Variation 6	Variation 8
1453	Components_6.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1454	Components_6.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1455	Components_6.TOLUENE_LIVE	Class_3	Variation 6	Variation 8
1456	Components_7.C1_LIVE	Class_3	Variation 6	Variation 8
1457	Components_7.N2_LIVE	Class_3	Variation 6	Variation 8
1458	Components_7.CO2_LIVE	Class_3	Variation 6	Variation 8
1459	Components_7.C2_LIVE	Class_3	Variation 6	Variation 8
1460	Components_7.C3_LIVE	Class_3	Variation 6	Variation 8
1461	Components_7.H2O_LIVE	Class_3	Variation 6	Variation 8
1462	Components_7.H2S_LIVE	Class_3	Variation 6	Variation 8
1463	Components_7.H2_LIVE	Class_3	Variation 6	Variation 8
1464	Components_7.CO_LIVE	Class_3	Variation 6	Variation 8
1465	Components_7.O2_LIVE	Class_3	Variation 6	Variation 8
1466	Components_7.IC4_LIVE	Class_3	Variation 6	Variation 8
1467	Components_7.NC4_LIVE	Class_3	Variation 6	Variation 8
1468	Components_7.IC5_LIVE	Class_3	Variation 6	Variation 8
1469	Components_7.NC5_LIVE	Class_3	Variation 6	Variation 8
1470	Components_7.C6_LIVE	Class_3	Variation 6	Variation 8
1471	Components_7.C7_LIVE	Class_3	Variation 6	Variation 8
1472	Components_7.C8_LIVE	Class_3	Variation 6	Variation 8
1473	Components_7.C9_LIVE	Class_3	Variation 6	Variation 8
1474	Components_7.C10_LIVE	Class_3	Variation 6	Variation 8
1475	Components_7.HE_LIVE	Class_3	Variation 6	Variation 8
1476	Components_7.AR_LIVE	Class_3	Variation 6	Variation 8
1477	Components_7.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1478	Components_7.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1479	Components_7.TOLUENE_LIVE	Class_3	Variation 6	Variation 8



Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
1480	Components_8.C1_LIVE	Class_3	Variation 6	Variation 8
1481	Components_8.N2_LIVE	Class_3	Variation 6	Variation 8
1482	Components_8.CO2_LIVE	Class_3	Variation 6	Variation 8
1483	Components_8.C2_LIVE	Class_3	Variation 6	Variation 8
1484	Components_8.C3_LIVE	Class_3	Variation 6	Variation 8
1485	Components_8.H2O_LIVE	Class_3	Variation 6	Variation 8
1486	Components_8.H2S_LIVE	Class_3	Variation 6	Variation 8
1487	Components_8.H2_LIVE	Class_3	Variation 6	Variation 8
1488	Components_8.CO_LIVE	Class_3	Variation 6	Variation 8
1489	Components_8.O2_LIVE	Class_3	Variation 6	Variation 8
1490	Components_8.IC4_LIVE	Class_3	Variation 6	Variation 8
1491	Components_8.NC4_LIVE	Class_3	Variation 6	Variation 8
1492	Components_8.IC5_LIVE	Class_3	Variation 6	Variation 8
1493	Components_8.NC5_LIVE	Class_3	Variation 6	Variation 8
1494	Components_8.C6_LIVE	Class_3	Variation 6	Variation 8
1495	Components_8.C7_LIVE	Class_3	Variation 6	Variation 8
1496	Components_8.C8_LIVE	Class_3	Variation 6	Variation 8
1497	Components_8.C9_LIVE	Class_3	Variation 6	Variation 8
1498	Components_8.C10_LIVE	Class_3	Variation 6	Variation 8
1499	Components_8.HE_LIVE	Class_3	Variation 6	Variation 8
1500	Components_8.AR_LIVE	Class_3	Variation 6	Variation 8
1501	Components_8.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1502	Components_8.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1503	Components_8.TOLUENE_LIVE	Class_3	Variation 6	Variation 8
1504	Components_9.C1_LIVE	Class_3	Variation 6	Variation 8
1505	Components_9.N2_LIVE	Class_3	Variation 6	Variation 8
1506	Components_9.CO2_LIVE	Class_3	Variation 6	Variation 8
1507	Components_9.C2_LIVE	Class_3	Variation 6	Variation 8
1508	Components_9.C3_LIVE	Class_3	Variation 6	Variation 8
1509	Components_9.H2O_LIVE	Class_3	Variation 6	Variation 8
1510	Components_9.H2S_LIVE	Class_3	Variation 6	Variation 8
1511	Components_9.H2_LIVE	Class_3	Variation 6	Variation 8

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1512	Components_9.CO_LIVE	Class_3	Variation 6	Variation 8
1513	Components_9.O2_LIVE	Class_3	Variation 6	Variation 8
1514	Components_9.IC4_LIVE	Class_3	Variation 6	Variation 8
1515	Components_9.NC4_LIVE	Class_3	Variation 6	Variation 8
1516	Components_9.IC5_LIVE	Class_3	Variation 6	Variation 8
1517	Components_9.NC5_LIVE	Class_3	Variation 6	Variation 8
1518	Components_9.C6_LIVE	Class_3	Variation 6	Variation 8
1519	Components_9.C7_LIVE	Class_3	Variation 6	Variation 8
1520	Components_9.C8_LIVE	Class_3	Variation 6	Variation 8
1521	Components_9.C9_LIVE	Class_3	Variation 6	Variation 8
1522	Components_9.C10_LIVE	Class_3	Variation 6	Variation 8
1523	Components_9.HE_LIVE	Class_3	Variation 6	Variation 8
1524	Components_9.AR_LIVE	Class_3	Variation 6	Variation 8
1525	Components_9.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1526	Components_9.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1527	Components_9.TOLUENE_LIVE	Class_3	Variation 6	Variation 8
1528	Components_10.C1_LIVE	Class_3	Variation 6	Variation 8
1529	Components_10.N2_LIVE	Class_3	Variation 6	Variation 8
1530	Components_10.CO2_LIVE	Class_3	Variation 6	Variation 8
1531	Components_10.C2_LIVE	Class_3	Variation 6	Variation 8
1532	Components_10.C3_LIVE	Class_3	Variation 6	Variation 8
1533	Components_10.H2O_LIVE	Class_3	Variation 6	Variation 8
1534	Components_10.H2S_LIVE	Class_3	Variation 6	Variation 8
1535	Components_10.H2_LIVE	Class_3	Variation 6	Variation 8
1536	Components_10.CO_LIVE	Class_3	Variation 6	Variation 8
1537	Components_10.O2_LIVE	Class_3	Variation 6	Variation 8
1538	Components_10.IC4_LIVE	Class_3	Variation 6	Variation 8
1539	Components_10.NC4_LIVE	Class_3	Variation 6	Variation 8
1540	Components_10.IC5_LIVE	Class_3	Variation 6	Variation 8
1541	Components_10.NC5_LIVE	Class_3	Variation 6	Variation 8
1542	Components_10.C6_LIVE	Class_3	Variation 6	Variation 8
1543	Components_10.C7_LIVE	Class_3	Variation 6	Variation 8

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
1544	Components_10.C8_LIVE	Class_3	Variation 6	Variation 8
1545	Components_10.C9_LIVE	Class_3	Variation 6	Variation 8
1546	Components_10.C10_LIVE	Class_3	Variation 6	Variation 8
1547	Components_10.HE_LIVE	Class_3	Variation 6	Variation 8
1548	Components_10.AR_LIVE	Class_3	Variation 6	Variation 8
1549	Components_10.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1550	Components_10.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1551	Components_10.TOLUENE_LIVE	Class_3	Variation 6	Variation 8
1552	Components_11.C1_LIVE	Class_3	Variation 6	Variation 8
1553	Components_11.N2_LIVE	Class_3	Variation 6	Variation 8
1554	Components_11.CO2_LIVE	Class_3	Variation 6	Variation 8
1555	Components_11.C2_LIVE	Class_3	Variation 6	Variation 8
1556	Components_11.C3_LIVE	Class_3	Variation 6	Variation 8
1557	Components_11.H2O_LIVE	Class_3	Variation 6	Variation 8
1558	Components_11.H2S_LIVE	Class_3	Variation 6	Variation 8
1559	Components_11.H2_LIVE	Class_3	Variation 6	Variation 8
1560	Components_11.CO_LIVE	Class_3	Variation 6	Variation 8
1561	Components_11.O2_LIVE	Class_3	Variation 6	Variation 8
1562	Components_11.IC4_LIVE	Class_3	Variation 6	Variation 8
1563	Components_11.NC4_LIVE	Class_3	Variation 6	Variation 8
1564	Components_11.IC5_LIVE	Class_3	Variation 6	Variation 8
1565	Components_11.NC5_LIVE	Class_3	Variation 6	Variation 8
1566	Components_11.C6_LIVE	Class_3	Variation 6	Variation 8
1567	Components_11.C7_LIVE	Class_3	Variation 6	Variation 8
1568	Components_11.C8_LIVE	Class_3	Variation 6	Variation 8
1569	Components_11.C9_LIVE	Class_3	Variation 6	Variation 8
1570	Components_11.C10_LIVE	Class_3	Variation 6	Variation 8
1571	Components_11.HE_LIVE	Class_3	Variation 6	Variation 8
1572	Components_11.AR_LIVE	Class_3	Variation 6	Variation 8
1573	Components_11.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1574	Components_11.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1575	Components_11.TOLUENE_LIVE	Class_3	Variation 6	Variation 8

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1576	Components_12.C1_LIVE	Class_3	Variation 6	Variation 8
1577	Components_12.N2_LIVE	Class_3	Variation 6	Variation 8
1578	Components_12.CO2_LIVE	Class_3	Variation 6	Variation 8
1579	Components_12.C2_LIVE	Class_3	Variation 6	Variation 8
1580	Components_12.C3_LIVE	Class_3	Variation 6	Variation 8
1581	Components_12.H2O_LIVE	Class_3	Variation 6	Variation 8
1582	Components_12.H2S_LIVE	Class_3	Variation 6	Variation 8
1583	Components_12.H2_LIVE	Class_3	Variation 6	Variation 8
1584	Components_12.CO_LIVE	Class_3	Variation 6	Variation 8
1585	Components_12.O2_LIVE	Class_3	Variation 6	Variation 8
1586	Components_12.IC4_LIVE	Class_3	Variation 6	Variation 8
1587	Components_12.NC4_LIVE	Class_3	Variation 6	Variation 8
1588	Components_12.IC5_LIVE	Class_3	Variation 6	Variation 8
1589	Components_12.NC5_LIVE	Class_3	Variation 6	Variation 8
1590	Components_12.C6_LIVE	Class_3	Variation 6	Variation 8
1591	Components_12.C7_LIVE	Class_3	Variation 6	Variation 8
1592	Components_12.C8_LIVE	Class_3	Variation 6	Variation 8
1593	Components_12.C9_LIVE	Class_3	Variation 6	Variation 8
1594	Components_12.C10_LIVE	Class_3	Variation 6	Variation 8
1595	Components_12.HE_LIVE	Class_3	Variation 6	Variation 8
1596	Components_12.AR_LIVE	Class_3	Variation 6	Variation 8
1597	Components_12.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1598	Components_12.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1599	Components_12.TOLUENE_LIVE	Class_3	Variation 6	Variation 8
1600	Components_13.C1_LIVE	Class_3	Variation 6	Variation 8
1601	Components_13.N2_LIVE	Class_3	Variation 6	Variation 8
1602	Components_13.CO2_LIVE	Class_3	Variation 6	Variation 8
1603	Components_13.C2_LIVE	Class_3	Variation 6	Variation 8
1604	Components_13.C3_LIVE	Class_3	Variation 6	Variation 8
1605	Components_13.H2O_LIVE	Class_3	Variation 6	Variation 8
1606	Components_13.H2S_LIVE	Class_3	Variation 6	Variation 8
1607	Components_13.H2_LIVE	Class_3	Variation 6	Variation 8

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
1608	Components_13.CO_LIVE	Class_3	Variation 6	Variation 8
1609	Components_13.O2_LIVE	Class_3	Variation 6	Variation 8
1610	Components_13.IC4_LIVE	Class_3	Variation 6	Variation 8
1611	Components_13.NC4_LIVE	Class_3	Variation 6	Variation 8
1612	Components_13.IC5_LIVE	Class_3	Variation 6	Variation 8
1613	Components_13.NC5_LIVE	Class_3	Variation 6	Variation 8
1614	Components_13.C6_LIVE	Class_3	Variation 6	Variation 8
1615	Components_13.C7_LIVE	Class_3	Variation 6	Variation 8
1616	Components_13.C8_LIVE	Class_3	Variation 6	Variation 8
1617	Components_13.C9_LIVE	Class_3	Variation 6	Variation 8
1618	Components_13.C10_LIVE	Class_3	Variation 6	Variation 8
1619	Components_13.HE_LIVE	Class_3	Variation 6	Variation 8
1620	Components_13.AR_LIVE	Class_3	Variation 6	Variation 8
1621	Components_13.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1622	Components_13.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1623	Components_13.TOLUENE_LIVE	Class_3	Variation 6	Variation 8
1624	Components_14.C1_LIVE	Class_3	Variation 6	Variation 8
1625	Components_14.N2_LIVE	Class_3	Variation 6	Variation 8
1626	Components_14.CO2_LIVE	Class_3	Variation 6	Variation 8
1627	Components_14.C2_LIVE	Class_3	Variation 6	Variation 8
1628	Components_14.C3_LIVE	Class_3	Variation 6	Variation 8
1629	Components_14.H2O_LIVE	Class_3	Variation 6	Variation 8
1630	Components_14.H2S_LIVE	Class_3	Variation 6	Variation 8
1631	Components_14.H2_LIVE	Class_3	Variation 6	Variation 8
1632	Components_14.CO_LIVE	Class_3	Variation 6	Variation 8
1633	Components_14.O2_LIVE	Class_3	Variation 6	Variation 8
1634	Components_14.IC4_LIVE	Class_3	Variation 6	Variation 8
1635	Components_14.NC4_LIVE	Class_3	Variation 6	Variation 8
1636	Components_14.IC5_LIVE	Class_3	Variation 6	Variation 8
1637	Components_14.NC5_LIVE	Class_3	Variation 6	Variation 8
1638	Components_14.C6_LIVE	Class_3	Variation 6	Variation 8
1639	Components_14.C7_LIVE	Class_3	Variation 6	Variation 8

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1640	Components_14.C8_LIVE	Class_3	Variation 6	Variation 8
1641	Components_14.C9_LIVE	Class_3	Variation 6	Variation 8
1642	Components_14.C10_LIVE	Class_3	Variation 6	Variation 8
1643	Components_14.HE_LIVE	Class_3	Variation 6	Variation 8
1644	Components_14.AR_LIVE	Class_3	Variation 6	Variation 8
1645	Components_14.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1646	Components_14.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1647	Components_14.TOLUENE_LIVE	Class_3	Variation 6	Variation 8
1648	Components_15.C1_LIVE	Class_3	Variation 6	Variation 8
1649	Components_15.N2_LIVE	Class_3	Variation 6	Variation 8
1650	Components_15.CO2_LIVE	Class_3	Variation 6	Variation 8
1651	Components_15.C2_LIVE	Class_3	Variation 6	Variation 8
1652	Components_15.C3_LIVE	Class_3	Variation 6	Variation 8
1653	Components_15.H2O_LIVE	Class_3	Variation 6	Variation 8
1654	Components_15.H2S_LIVE	Class_3	Variation 6	Variation 8
1655	Components_15.H2_LIVE	Class_3	Variation 6	Variation 8
1656	Components_15.CO_LIVE	Class_3	Variation 6	Variation 8
1657	Components_15.O2_LIVE	Class_3	Variation 6	Variation 8
1658	Components_15.IC4_LIVE	Class_3	Variation 6	Variation 8
1659	Components_15.NC4_LIVE	Class_3	Variation 6	Variation 8
1660	Components_15.IC5_LIVE	Class_3	Variation 6	Variation 8
1661	Components_15.NC5_LIVE	Class_3	Variation 6	Variation 8
1662	Components_15.C6_LIVE	Class_3	Variation 6	Variation 8
1663	Components_15.C7_LIVE	Class_3	Variation 6	Variation 8
1664	Components_15.C8_LIVE	Class_3	Variation 6	Variation 8
1665	Components_15.C9_LIVE	Class_3	Variation 6	Variation 8
1666	Components_15.C10_LIVE	Class_3	Variation 6	Variation 8
1667	Components_15.HE_LIVE	Class_3	Variation 6	Variation 8
1668	Components_15.AR_LIVE	Class_3	Variation 6	Variation 8
1669	Components_15.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1670	Components_15.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1671	Components_15.TOLUENE_LIVE	Class_3	Variation 6	Variation 8

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
1672	Components_16.C1_LIVE	Class_3	Variation 6	Variation 8
1673	Components_16.N2_LIVE	Class_3	Variation 6	Variation 8
1674	Components_16.CO2_LIVE	Class_3	Variation 6	Variation 8
1675	Components_16.C2_LIVE	Class_3	Variation 6	Variation 8
1676	Components_16.C3_LIVE	Class_3	Variation 6	Variation 8
1677	Components_16.H2O_LIVE	Class_3	Variation 6	Variation 8
1678	Components_16.H2S_LIVE	Class_3	Variation 6	Variation 8
1679	Components_16.H2_LIVE	Class_3	Variation 6	Variation 8
1680	Components_16.CO_LIVE	Class_3	Variation 6	Variation 8
1681	Components_16.O2_LIVE	Class_3	Variation 6	Variation 8
1682	Components_16.IC4_LIVE	Class_3	Variation 6	Variation 8
1683	Components_16.NC4_LIVE	Class_3	Variation 6	Variation 8
1684	Components_16.IC5_LIVE	Class_3	Variation 6	Variation 8
1685	Components_16.NC5_LIVE	Class_3	Variation 6	Variation 8
1686	Components_16.C6_LIVE	Class_3	Variation 6	Variation 8
1687	Components_16.C7_LIVE	Class_3	Variation 6	Variation 8
1688	Components_16.C8_LIVE	Class_3	Variation 6	Variation 8
1689	Components_16.C9_LIVE	Class_3	Variation 6	Variation 8
1690	Components_16.C10_LIVE	Class_3	Variation 6	Variation 8
1691	Components_16.HE_LIVE	Class_3	Variation 6	Variation 8
1692	Components_16.AR_LIVE	Class_3	Variation 6	Variation 8
1693	Components_16.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1694	Components_16.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1695	Components_16.TOLUENE_LIVE	Class_3	Variation 6	Variation 8
1696	Components_17.C1_LIVE	Class_3	Variation 6	Variation 8
1697	Components_17.N2_LIVE	Class_3	Variation 6	Variation 8
1698	Components_17.CO2_LIVE	Class_3	Variation 6	Variation 8
1699	Components_17.C2_LIVE	Class_3	Variation 6	Variation 8
1700	Components_17.C3_LIVE	Class_3	Variation 6	Variation 8
1701	Components_17.H2O_LIVE	Class_3	Variation 6	Variation 8
1702	Components_17.H2S_LIVE	Class_3	Variation 6	Variation 8
1703	Components_17.H2_LIVE	Class_3	Variation 6	Variation 8

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1704	Components_17.CO_LIVE	Class_3	Variation 6	Variation 8
1705	Components_17.O2_LIVE	Class_3	Variation 6	Variation 8
1706	Components_17.IC4_LIVE	Class_3	Variation 6	Variation 8
1707	Components_17.NC4_LIVE	Class_3	Variation 6	Variation 8
1708	Components_17.IC5_LIVE	Class_3	Variation 6	Variation 8
1709	Components_17.NC5_LIVE	Class_3	Variation 6	Variation 8
1710	Components_17.C6_LIVE	Class_3	Variation 6	Variation 8
1711	Components_17.C7_LIVE	Class_3	Variation 6	Variation 8
1712	Components_17.C8_LIVE	Class_3	Variation 6	Variation 8
1713	Components_17.C9_LIVE	Class_3	Variation 6	Variation 8
1714	Components_17.C10_LIVE	Class_3	Variation 6	Variation 8
1715	Components_17.HE_LIVE	Class_3	Variation 6	Variation 8
1716	Components_17.AR_LIVE	Class_3	Variation 6	Variation 8
1717	Components_17.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1718	Components_17.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1719	Components_17.TOLUENE_LIVE	Class_3	Variation 6	Variation 8
1720	Components_18.C1_LIVE	Class_3	Variation 6	Variation 8
1721	Components_18.N2_LIVE	Class_3	Variation 6	Variation 8
1722	Components_18.CO2_LIVE	Class_3	Variation 6	Variation 8
1723	Components_18.C2_LIVE	Class_3	Variation 6	Variation 8
1724	Components_18.C3_LIVE	Class_3	Variation 6	Variation 8
1725	Components_18.H2O_LIVE	Class_3	Variation 6	Variation 8
1726	Components_18.H2S_LIVE	Class_3	Variation 6	Variation 8
1727	Components_18.H2_LIVE	Class_3	Variation 6	Variation 8
1728	Components_18.CO_LIVE	Class_3	Variation 6	Variation 8
1729	Components_18.O2_LIVE	Class_3	Variation 6	Variation 8
1730	Components_18.IC4_LIVE	Class_3	Variation 6	Variation 8
1731	Components_18.NC4_LIVE	Class_3	Variation 6	Variation 8
1732	Components_18.IC5_LIVE	Class_3	Variation 6	Variation 8
1733	Components_18.NC5_LIVE	Class_3	Variation 6	Variation 8
1734	Components_18.C6_LIVE	Class_3	Variation 6	Variation 8
1735	Components_18.C7_LIVE	Class_3	Variation 6	Variation 8



Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
1736	Components_18.C8_LIVE	Class_3	Variation 6	Variation 8
1737	Components_18.C9_LIVE	Class_3	Variation 6	Variation 8
1738	Components_18.C10_LIVE	Class_3	Variation 6	Variation 8
1739	Components_18.HE_LIVE	Class_3	Variation 6	Variation 8
1740	Components_18.AR_LIVE	Class_3	Variation 6	Variation 8
1741	Components_18.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1742	Components_18.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1743	Components_18.TOLUENE_LIVE	Class_3	Variation 6	Variation 8
1744	Components_19.C1_LIVE	Class_3	Variation 6	Variation 8
1745	Components_19.N2_LIVE	Class_3	Variation 6	Variation 8
1746	Components_19.CO2_LIVE	Class_3	Variation 6	Variation 8
1747	Components_19.C2_LIVE	Class_3	Variation 6	Variation 8
1748	Components_19.C3_LIVE	Class_3	Variation 6	Variation 8
1749	Components_19.H2O_LIVE	Class_3	Variation 6	Variation 8
1750	Components_19.H2S_LIVE	Class_3	Variation 6	Variation 8
1751	Components_19.H2_LIVE	Class_3	Variation 6	Variation 8
1752	Components_19.CO_LIVE	Class_3	Variation 6	Variation 8
1753	Components_19.O2_LIVE	Class_3	Variation 6	Variation 8
1754	Components_19.IC4_LIVE	Class_3	Variation 6	Variation 8
1755	Components_19.NC4_LIVE	Class_3	Variation 6	Variation 8
1756	Components_19.IC5_LIVE	Class_3	Variation 6	Variation 8
1757	Components_19.NC5_LIVE	Class_3	Variation 6	Variation 8
1758	Components_19.C6_LIVE	Class_3	Variation 6	Variation 8
1759	Components_19.C7_LIVE	Class_3	Variation 6	Variation 8
1760	Components_19.C8_LIVE	Class_3	Variation 6	Variation 8
1761	Components_19.C9_LIVE	Class_3	Variation 6	Variation 8
1762	Components_19.C10_LIVE	Class_3	Variation 6	Variation 8
1763	Components_19.HE_LIVE	Class_3	Variation 6	Variation 8
1764	Components_19.AR_LIVE	Class_3	Variation 6	Variation 8
1765	Components_19.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1766	Components_19.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1767	Components_19.TOLUENE_LIVE	Class_3	Variation 6	Variation 8

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1768	Components_20.C1_LIVE	Class_3	Variation 6	Variation 8
1769	Components_20.N2_LIVE	Class_3	Variation 6	Variation 8
1770	Components_20.CO2_LIVE	Class_3	Variation 6	Variation 8
1771	Components_20.C2_LIVE	Class_3	Variation 6	Variation 8
1772	Components_20.C3_LIVE	Class_3	Variation 6	Variation 8
1773	Components_20.H2O_LIVE	Class_3	Variation 6	Variation 8
1774	Components_20.H2S_LIVE	Class_3	Variation 6	Variation 8
1775	Components_20.H2_LIVE	Class_3	Variation 6	Variation 8
1776	Components_20.CO_LIVE	Class_3	Variation 6	Variation 8
1777	Components_20.O2_LIVE	Class_3	Variation 6	Variation 8
1778	Components_20.IC4_LIVE	Class_3	Variation 6	Variation 8
1779	Components_20.NC4_LIVE	Class_3	Variation 6	Variation 8
1780	Components_20.IC5_LIVE	Class_3	Variation 6	Variation 8
1781	Components_20.NC5_LIVE	Class_3	Variation 6	Variation 8
1782	Components_20.C6_LIVE	Class_3	Variation 6	Variation 8
1783	Components_20.C7_LIVE	Class_3	Variation 6	Variation 8
1784	Components_20.C8_LIVE	Class_3	Variation 6	Variation 8
1785	Components_20.C9_LIVE	Class_3	Variation 6	Variation 8
1786	Components_20.C10_LIVE	Class_3	Variation 6	Variation 8
1787	Components_20.HE_LIVE	Class_3	Variation 6	Variation 8
1788	Components_20.AR_LIVE	Class_3	Variation 6	Variation 8
1789	Components_20.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1790	Components_20.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1791	Components_20.TOLUENE_LIVE	Class_3	Variation 6	Variation 8
1792	Components_21.C1_LIVE	Class_3	Variation 6	Variation 8
1793	Components_21.N2_LIVE	Class_3	Variation 6	Variation 8
1794	Components_21.CO2_LIVE	Class_3	Variation 6	Variation 8
1795	Components_21.C2_LIVE	Class_3	Variation 6	Variation 8
1796	Components_21.C3_LIVE	Class_3	Variation 6	Variation 8
1797	Components_21.H2O_LIVE	Class_3	Variation 6	Variation 8
1798	Components_21.H2S_LIVE	Class_3	Variation 6	Variation 8
1799	Components_21.H2_LIVE	Class_3	Variation 6	Variation 8

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
1800	Components_21.CO_LIVE	Class_3	Variation 6	Variation 8
1801	Components_21.O2_LIVE	Class_3	Variation 6	Variation 8
1802	Components_21.IC4_LIVE	Class_3	Variation 6	Variation 8
1803	Components_21.NC4_LIVE	Class_3	Variation 6	Variation 8
1804	Components_21.IC5_LIVE	Class_3	Variation 6	Variation 8
1805	Components_21.NC5_LIVE	Class_3	Variation 6	Variation 8
1806	Components_21.C6_LIVE	Class_3	Variation 6	Variation 8
1807	Components_21.C7_LIVE	Class_3	Variation 6	Variation 8
1808	Components_21.C8_LIVE	Class_3	Variation 6	Variation 8
1809	Components_21.C9_LIVE	Class_3	Variation 6	Variation 8
1810	Components_21.C10_LIVE	Class_3	Variation 6	Variation 8
1811	Components_21.HE_LIVE	Class_3	Variation 6	Variation 8
1812	Components_21.AR_LIVE	Class_3	Variation 6	Variation 8
1813	Components_21.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1814	Components_21.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1815	Components_21.TOLUENE_LIVE	Class_3	Variation 6	Variation 8
1816	Components_22.C1_LIVE	Class_3	Variation 6	Variation 8
1817	Components_22.N2_LIVE	Class_3	Variation 6	Variation 8
1818	Components_22.CO2_LIVE	Class_3	Variation 6	Variation 8
1819	Components_22.C2_LIVE	Class_3	Variation 6	Variation 8
1820	Components_22.C3_LIVE	Class_3	Variation 6	Variation 8
1821	Components_22.H2O_LIVE	Class_3	Variation 6	Variation 8
1822	Components_22.H2S_LIVE	Class_3	Variation 6	Variation 8
1823	Components_22.H2_LIVE	Class_3	Variation 6	Variation 8
1824	Components_22.CO_LIVE	Class_3	Variation 6	Variation 8
1825	Components_22.O2_LIVE	Class_3	Variation 6	Variation 8
1826	Components_22.IC4_LIVE	Class_3	Variation 6	Variation 8
1827	Components_22.NC4_LIVE	Class_3	Variation 6	Variation 8
1828	Components_22.IC5_LIVE	Class_3	Variation 6	Variation 8
1829	Components_22.NC5_LIVE	Class_3	Variation 6	Variation 8
1830	Components_22.C6_LIVE	Class_3	Variation 6	Variation 8
1831	Components_22.C7_LIVE	Class_3	Variation 6	Variation 8

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1832	Components_22.C8_LIVE	Class_3	Variation 6	Variation 8
1833	Components_22.C9_LIVE	Class_3	Variation 6	Variation 8
1834	Components_22.C10_LIVE	Class_3	Variation 6	Variation 8
1835	Components_22.HE_LIVE	Class_3	Variation 6	Variation 8
1836	Components_22.AR_LIVE	Class_3	Variation 6	Variation 8
1837	Components_22.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1838	Components_22.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1839	Components_22.TOLUENE_LIVE	Class_3	Variation 6	Variation 8
1840	Components_23.C1_LIVE	Class_3	Variation 6	Variation 8
1841	Components_23.N2_LIVE	Class_3	Variation 6	Variation 8
1842	Components_23.CO2_LIVE	Class_3	Variation 6	Variation 8
1843	Components_23.C2_LIVE	Class_3	Variation 6	Variation 8
1844	Components_23.C3_LIVE	Class_3	Variation 6	Variation 8
1845	Components_23.H2O_LIVE	Class_3	Variation 6	Variation 8
1846	Components_23.H2S_LIVE	Class_3	Variation 6	Variation 8
1847	Components_23.H2_LIVE	Class_3	Variation 6	Variation 8
1848	Components_23.CO_LIVE	Class_3	Variation 6	Variation 8
1849	Components_23.O2_LIVE	Class_3	Variation 6	Variation 8
1850	Components_23.IC4_LIVE	Class_3	Variation 6	Variation 8
1851	Components_23.NC4_LIVE	Class_3	Variation 6	Variation 8
1852	Components_23.IC5_LIVE	Class_3	Variation 6	Variation 8
1853	Components_23.NC5_LIVE	Class_3	Variation 6	Variation 8
1854	Components_23.C6_LIVE	Class_3	Variation 6	Variation 8
1855	Components_23.C7_LIVE	Class_3	Variation 6	Variation 8
1856	Components_23.C8_LIVE	Class_3	Variation 6	Variation 8
1857	Components_23.C9_LIVE	Class_3	Variation 6	Variation 8
1858	Components_23.C10_LIVE	Class_3	Variation 6	Variation 8
1859	Components_23.HE_LIVE	Class_3	Variation 6	Variation 8
1860	Components_23.AR_LIVE	Class_3	Variation 6	Variation 8
1861	Components_23.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1862	Components_23.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1863	Components_23.TOLUENE_LIVE	Class_3	Variation 6	Variation 8

Point Index	Tag Mapped	Default Class	Group 30 Default Variation	Group 32 Default Variation
1864	Components_24.C1_LIVE	Class_3	Variation 6	Variation 8
1865	Components_24.N2_LIVE	Class_3	Variation 6	Variation 8
1866	Components_24.CO2_LIVE	Class_3	Variation 6	Variation 8
1867	Components_24.C2_LIVE	Class_3	Variation 6	Variation 8
1868	Components_24.C3_LIVE	Class_3	Variation 6	Variation 8
1869	Components_24.H2O_LIVE	Class_3	Variation 6	Variation 8
1870	Components_24.H2S_LIVE	Class_3	Variation 6	Variation 8
1871	Components_24.H2_LIVE	Class_3	Variation 6	Variation 8
1872	Components_24.CO_LIVE	Class_3	Variation 6	Variation 8
1873	Components_24.O2_LIVE	Class_3	Variation 6	Variation 8
1874	Components_24.IC4_LIVE	Class_3	Variation 6	Variation 8
1875	Components_24.NC4_LIVE	Class_3	Variation 6	Variation 8
1876	Components_24.IC5_LIVE	Class_3	Variation 6	Variation 8
1877	Components_24.NC5_LIVE	Class_3	Variation 6	Variation 8
1878	Components_24.C6_LIVE	Class_3	Variation 6	Variation 8
1879	Components_24.C7_LIVE	Class_3	Variation 6	Variation 8
1880	Components_24.C8_LIVE	Class_3	Variation 6	Variation 8
1881	Components_24.C9_LIVE	Class_3	Variation 6	Variation 8
1882	Components_24.C10_LIVE	Class_3	Variation 6	Variation 8
1883	Components_24.HE_LIVE	Class_3	Variation 6	Variation 8
1884	Components_24.AR_LIVE	Class_3	Variation 6	Variation 8
1885	Components_24.NEOC5_LIVE	Class_3	Variation 6	Variation 8
1886	Components_24.BENZENE_LIVE	Class_3	Variation 6	Variation 8
1887	Components_24.TOLUENE_LIVE	Class_3	Variation 6	Variation 8
1888	AppInfo_1.APP_STATUS	Class_1	Variation 2	Variation 4
1889	AppInfo_1.APP_CODE	Class_1	Variation 2	Variation 4
1890	AppInfo_2.APP_STATUS	Class_1	Variation 2	Variation 4
1891	AppInfo_2.APP_CODE	Class_1	Variation 2	Variation 4
1892	AppInfo_3.APP_STATUS	Class_1	Variation 2	Variation 4
1893	AppInfo_3.APP_CODE	Class_1	Variation 2	Variation 4
1894	AppInfo_4.APP_STATUS	Class_1	Variation 2	Variation 4
1895	AppInfo_4.APP_CODE	Class_1	Variation 2	Variation 4

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1896	AppInfo_5.APP_STATUS	Class_1	Variation 2	Variation 4
1897	AppInfo_5.APP_CODE	Class_1	Variation 2	Variation 4
1898	AppInfo_6.APP_STATUS	Class_1	Variation 2	Variation 4
1899	AppInfo_6.APP_CODE	Class_1	Variation 2	Variation 4
1900	AppInfo_7.APP_STATUS	Class_1	Variation 2	Variation 4
1901	AppInfo_7.APP_CODE	Class_1	Variation 2	Variation 4
1902	AppInfo_8.APP_STATUS	Class_1	Variation 2	Variation 4
1903	AppInfo_8.APP_CODE	Class_1	Variation 2	Variation 4

## 4.8 Analog Output: DNP3 Object Groups 40 (Status) & 41 (Commands)

### 4.8.1 DNP3 Object Group 40: Analog Output (Status)

This group can be read with the following variations:

- **Variation 1:** 32-bit with flag
- **Variation 2:** 16-bit with flag
- **Variation 3:** Single-precision floating point with flag
- **Variation 4:** Double-precision floating point with flag

### 4.8.2 DNP3 Object Group 41: Analog Output (Commands)

This group can be read with the following variations:

- **Variation 1:** Write 32-bit value
- **Variation 2:** Write 16-bit value
- **Variation 3:** Write single-precision floating point value
- **Variation 4:** Write double-precision floating point value

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
0	System_1.ACTIVE_DNP3_MAP	Class_3	SelectOperate	Variation 2	Variation 2
1	Mtr Setup_1.NUM_DPMTRS	Class_3	SelectOperate	Variation 2	Variation 2
2	Mtr Setup_1.NUM_LINMTRS	Class_3	SelectOperate	Variation 2	Variation 2
3	Mtr Setup_1.NUM_LIQLMTRS	Class_3	SelectOperate	Variation 2	Variation 2
4	AI_2-1.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
5	AI_2-2.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
6	AI_2-3.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
7	AI_2-4.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
8	AI_2-5.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
9	AI_2-6.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
10	AI_2-7.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
11	AI_2-8.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
12	AI_3-1.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
13	AI_3-2.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
14	AI_3-3.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
15	AI_3-4.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
16	AI_3-5.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2

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17	AI_3-6.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
18	AI_3-7.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
19	AI_3-8.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
20	AI_4-1.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
21	AI_4-2.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
22	AI_4-3.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
23	AI_4-4.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
24	AI_4-5.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
25	AI_4-6.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
26	AI_4-7.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
27	AI_4-8.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
28	AI_5-1.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
29	AI_5-2.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
30	AI_5-3.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
31	AI_5-4.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
32	AI_5-5.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
33	AI_5-6.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
34	AI_5-7.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
35	AI_5-8.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
36	AI_6-1.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
37	AI_6-2.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
38	AI_6-3.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
39	AI_6-4.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
40	AI_6-5.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
41	AI_6-6.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
42	AI_6-7.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
43	AI_6-8.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
44	AI_7-1.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
45	AI_7-2.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
46	AI_7-3.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
47	AI_7-4.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
48	AI_7-5.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2



Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
49	AI_7-6.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
50	AI_7-7.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
51	AI_7-8.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
52	AI_8-1.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
53	AI_8-2.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
54	AI_8-3.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
55	AI_8-4.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
56	AI_8-5.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
57	AI_8-6.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
58	AI_8-7.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
59	AI_8-8.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
60	PI_2-1.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
61	PI_2-2.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
62	PI_2-3.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
63	PI_2-4.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
64	PI_2-5.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
65	PI_2-6.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
66	PI_2-7.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
67	PI_2-8.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
68	PI_3-1.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
69	PI_3-2.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
70	PI_3-3.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
71	PI_3-4.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
72	PI_3-5.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
73	PI_3-6.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
74	PI_3-7.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
75	PI_3-8.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
76	PI_4-1.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
77	PI_4-2.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
78	PI_4-3.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
79	PI_4-4.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
80	PI_4-5.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3

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81	PI_4-6.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
82	PI_4-7.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
83	PI_4-8.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
84	PI_5-1.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
85	PI_5-2.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
86	PI_5-3.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
87	PI_5-4.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
88	PI_5-5.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
89	PI_5-6.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
90	PI_5-7.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
91	PI_5-8.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
92	PI_6-1.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
93	PI_6-2.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
94	PI_6-3.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
95	PI_6-4.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
96	PI_6-5.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
97	PI_6-6.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
98	PI_6-7.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
99	PI_6-8.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
100	PI_7-1.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
101	PI_7-2.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
102	PI_7-3.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
103	PI_7-4.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
104	PI_7-5.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
105	PI_7-6.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
106	PI_7-7.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
107	PI_7-8.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
108	PI_8-1.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
109	PI_8-2.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
110	PI_8-3.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
111	PI_8-4.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
112	PI_8-5.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
113	PI_8-6.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
114	PI_8-7.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
115	PI_8-8.OVRD_FREQ	Class_2	SelectOperate	Variation 3	Variation 3
116	AO_2-1.OVRD	Class_2	SelectOperate	Variation 3	Variation 3
117	AO_2-1.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
118	AO_2-1.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
119	AO_2-2.OVRD	Class_2	SelectOperate	Variation 3	Variation 3
120	AO_2-2.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
121	AO_2-2.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
122	AO_3-1.OVRD	Class_2	SelectOperate	Variation 3	Variation 3
123	AO_3-1.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
124	AO_3-1.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
125	AO_3-2.OVRD	Class_2	SelectOperate	Variation 3	Variation 3
126	AO_3-2.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
127	AO_3-2.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
128	AO_4-1.OVRD	Class_2	SelectOperate	Variation 3	Variation 3
129	AO_4-1.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
130	AO_4-1.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
131	AO_4-2.OVRD	Class_2	SelectOperate	Variation 3	Variation 3
132	AO_4-2.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
133	AO_4-2.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
134	AO_5-1.OVRD	Class_2	SelectOperate	Variation 3	Variation 3
135	AO_5-1.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
136	AO_5-1.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
137	AO_5-2.OVRD	Class_2	SelectOperate	Variation 3	Variation 3
138	AO_5-2.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
139	AO_5-2.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
140	AO_6-1.OVRD	Class_2	SelectOperate	Variation 3	Variation 3
141	AO_6-1.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
142	AO_6-1.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
143	AO_6-2.OVRD	Class_2	SelectOperate	Variation 3	Variation 3
144	AO_6-2.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2

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145	AO_6-2.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
146	AO_7-1.OVRD	Class_2	SelectOperate	Variation 3	Variation 3
147	AO_7-1.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
148	AO_7-1.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
149	AO_7-2.OVRD	Class_2	SelectOperate	Variation 3	Variation 3
150	AO_7-2.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
151	AO_7-2.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
152	AO_8-1.OVRD	Class_2	SelectOperate	Variation 3	Variation 3
153	AO_8-1.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
154	AO_8-1.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
155	AO_8-2.OVRD	Class_2	SelectOperate	Variation 3	Variation 3
156	AO_8-2.UNITS_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
157	AO_8-2.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
158	DO_2-1.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
159	DO_2-2.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
160	DO_3-1.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
161	DO_3-2.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
162	DO_4-1.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
163	DO_4-2.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
164	DO_5-1.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
165	DO_5-2.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
166	DO_6-1.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
167	DO_6-2.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
168	DO_7-1.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
169	DO_7-2.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
170	DO_8-1.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
171	DO_8-2.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
172	PID_1.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
173	PID_1.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
174	PID_1.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
175	PID_1.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
176	PID_1.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
177	PID_1.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
178	PID_1.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
179	PID_1.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
180	PID_1.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
181	PID_2.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
182	PID_2.P_PROPORPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
183	PID_2.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
184	PID_2.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
185	PID_2.O_PROPORPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
186	PID_2.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
187	PID_2.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
188	PID_2.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
189	PID_2.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
190	PID_3.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
191	PID_3.P_PROPORPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
192	PID_3.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
193	PID_3.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
194	PID_3.O_PROPORPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
195	PID_3.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
196	PID_3.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
197	PID_3.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
198	PID_3.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
199	PID_4.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
200	PID_4.P_PROPORPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
201	PID_4.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
202	PID_4.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
203	PID_4.O_PROPORPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
204	PID_4.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
205	PID_4.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
206	PID_4.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
207	PID_4.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
208	PID_5.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2

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209	PID_5.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
210	PID_5.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
211	PID_5.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
212	PID_5.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
213	PID_5.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
214	PID_5.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
215	PID_5.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
216	PID_5.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
217	PID_6.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
218	PID_6.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
219	PID_6.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
220	PID_6.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
221	PID_6.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
222	PID_6.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
223	PID_6.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
224	PID_6.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
225	PID_6.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
226	PID_7.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
227	PID_7.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
228	PID_7.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
229	PID_7.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
230	PID_7.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
231	PID_7.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
232	PID_7.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
233	PID_7.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
234	PID_7.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
235	PID_8.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
236	PID_8.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
237	PID_8.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
238	PID_8.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
239	PID_8.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
240	PID_8.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
241	PID_8.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
242	PID_8.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
243	PID_8.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
244	PID_9.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
245	PID_9.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
246	PID_9.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
247	PID_9.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
248	PID_9.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
249	PID_9.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
250	PID_9.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
251	PID_9.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
252	PID_9.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
253	PID_10.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
254	PID_10.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
255	PID_10.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
256	PID_10.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
257	PID_10.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
258	PID_10.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
259	PID_10.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
260	PID_10.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
261	PID_10.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
262	PID_11.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
263	PID_11.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
264	PID_11.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
265	PID_11.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
266	PID_11.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
267	PID_11.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
268	PID_11.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
269	PID_11.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
270	PID_11.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
271	PID_12.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
272	PID_12.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3

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273	PID_12.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
274	PID_12.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
275	PID_12.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
276	PID_12.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
277	PID_12.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
278	PID_12.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
279	PID_12.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
280	PID_13.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
281	PID_13.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
282	PID_13.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
283	PID_13.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
284	PID_13.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
285	PID_13.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
286	PID_13.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
287	PID_13.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
288	PID_13.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
289	PID_14.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
290	PID_14.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
291	PID_14.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
292	PID_14.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
293	PID_14.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
294	PID_14.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
295	PID_14.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
296	PID_14.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
297	PID_14.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
298	PID_15.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
299	PID_15.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
300	PID_15.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
301	PID_15.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
302	PID_15.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
303	PID_15.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
304	PID_15.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3



Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
305	PID_15.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
306	PID_15.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
307	PID_16.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
308	PID_16.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
309	PID_16.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
310	PID_16.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
311	PID_16.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
312	PID_16.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
313	PID_16.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
314	PID_16.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
315	PID_16.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
316	PID_17.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
317	PID_17.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
318	PID_17.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
319	PID_17.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
320	PID_17.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
321	PID_17.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
322	PID_17.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
323	PID_17.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
324	PID_17.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
325	PID_18.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
326	PID_18.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
327	PID_18.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
328	PID_18.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
329	PID_18.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
330	PID_18.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
331	PID_18.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
332	PID_18.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
333	PID_18.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
334	PID_19.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
335	PID_19.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
336	PID_19.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3

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337	PID_19.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
338	PID_19.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
339	PID_19.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
340	PID_19.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
341	PID_19.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
342	PID_19.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
343	PID_20.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
344	PID_20.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
345	PID_20.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
346	PID_20.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
347	PID_20.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
348	PID_20.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
349	PID_20.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
350	PID_20.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
351	PID_20.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
352	PID_21.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
353	PID_21.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
354	PID_21.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
355	PID_21.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
356	PID_21.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
357	PID_21.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
358	PID_21.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
359	PID_21.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
360	PID_21.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
361	PID_22.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
362	PID_22.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
363	PID_22.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
364	PID_22.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
365	PID_22.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
366	PID_22.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
367	PID_22.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
368	PID_22.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
369	PID_22.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
370	PID_23.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
371	PID_23.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
372	PID_23.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
373	PID_23.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
374	PID_23.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
375	PID_23.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
376	PID_23.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
377	PID_23.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
378	PID_23.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
379	PID_24.PID_LOOP_TYPE	Class_3	SelectOperate	Variation 2	Variation 2
380	PID_24.P_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
381	PID_24.P_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
382	PID_24.P_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
383	PID_24.O_PROPORTIONAL_G	Class_3	SelectOperate	Variation 3	Variation 3
384	PID_24.O_INTEGRAL_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
385	PID_24.O_DERIVATIVE_GAIN	Class_3	SelectOperate	Variation 3	Variation 3
386	PID_24.P_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
387	PID_24.O_SETPOINT	Class_3	SelectOperate	Variation 3	Variation 3
388	Components_1.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
389	Components_1.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
390	Components_1.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
391	Components_1.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
392	Components_1.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
393	Components_1.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
394	Components_1.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
395	Components_1.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
396	Components_1.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
397	Components_1.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
398	Components_1.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
399	Components_1.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
400	Components_1.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4

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401	Components_1.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
402	Components_1.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
403	Components_1.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
404	Components_1.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
405	Components_1.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
406	Components_1.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
407	Components_1.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
408	Components_1.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
409	Components_1.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
410	Components_1.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
411	Components_1.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
412	Components_1.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
413	Components_2.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
414	Components_2.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
415	Components_2.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
416	Components_2.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
417	Components_2.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
418	Components_2.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
419	Components_2.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
420	Components_2.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
421	Components_2.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
422	Components_2.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
423	Components_2.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
424	Components_2.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
425	Components_2.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
426	Components_2.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
427	Components_2.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
428	Components_2.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
429	Components_2.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
430	Components_2.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
431	Components_2.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
432	Components_2.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
433	Components_2.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
434	Components_2.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
435	Components_2.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
436	Components_2.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
437	Components_2.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
438	Components_3.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
439	Components_3.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
440	Components_3.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
441	Components_3.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
442	Components_3.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
443	Components_3.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
444	Components_3.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
445	Components_3.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
446	Components_3.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
447	Components_3.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
448	Components_3.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
449	Components_3.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
450	Components_3.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
451	Components_3.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
452	Components_3.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
453	Components_3.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
454	Components_3.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
455	Components_3.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
456	Components_3.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
457	Components_3.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
458	Components_3.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
459	Components_3.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
460	Components_3.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
461	Components_3.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
462	Components_3.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
463	Components_4.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
464	Components_4.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4

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465	Components_4.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
466	Components_4.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
467	Components_4.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
468	Components_4.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
469	Components_4.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
470	Components_4.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
471	Components_4.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
472	Components_4.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
473	Components_4.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
474	Components_4.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
475	Components_4.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
476	Components_4.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
477	Components_4.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
478	Components_4.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
479	Components_4.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
480	Components_4.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
481	Components_4.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
482	Components_4.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
483	Components_4.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
484	Components_4.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
485	Components_4.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
486	Components_4.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
487	Components_4.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
488	Components_5.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
489	Components_5.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
490	Components_5.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
491	Components_5.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
492	Components_5.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
493	Components_5.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
494	Components_5.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
495	Components_5.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
496	Components_5.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
497	Components_5.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
498	Components_5.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
499	Components_5.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
500	Components_5.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
501	Components_5.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
502	Components_5.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
503	Components_5.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
504	Components_5.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
505	Components_5.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
506	Components_5.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
507	Components_5.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
508	Components_5.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
509	Components_5.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
510	Components_5.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
511	Components_5.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
512	Components_5.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
513	Components_6.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
514	Components_6.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
515	Components_6.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
516	Components_6.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
517	Components_6.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
518	Components_6.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
519	Components_6.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
520	Components_6.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
521	Components_6.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
522	Components_6.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
523	Components_6.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
524	Components_6.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
525	Components_6.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
526	Components_6.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
527	Components_6.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
528	Components_6.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4

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529	Components_6.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
530	Components_6.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
531	Components_6.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
532	Components_6.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
533	Components_6.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
534	Components_6.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
535	Components_6.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
536	Components_6.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
537	Components_6.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
538	Components_7.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
539	Components_7.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
540	Components_7.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
541	Components_7.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
542	Components_7.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
543	Components_7.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
544	Components_7.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
545	Components_7.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
546	Components_7.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
547	Components_7.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
548	Components_7.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
549	Components_7.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
550	Components_7.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
551	Components_7.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
552	Components_7.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
553	Components_7.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
554	Components_7.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
555	Components_7.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
556	Components_7.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
557	Components_7.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
558	Components_7.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
559	Components_7.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
560	Components_7.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4



Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
561	Components_7.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
562	Components_7.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
563	Components_8.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
564	Components_8.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
565	Components_8.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
566	Components_8.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
567	Components_8.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
568	Components_8.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
569	Components_8.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
570	Components_8.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
571	Components_8.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
572	Components_8.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
573	Components_8.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
574	Components_8.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
575	Components_8.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
576	Components_8.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
577	Components_8.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
578	Components_8.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
579	Components_8.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
580	Components_8.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
581	Components_8.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
582	Components_8.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
583	Components_8.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
584	Components_8.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
585	Components_8.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
586	Components_8.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
587	Components_8.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
588	Components_9.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
589	Components_9.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
590	Components_9.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
591	Components_9.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
592	Components_9.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4

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593	Components_9.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
594	Components_9.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
595	Components_9.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
596	Components_9.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
597	Components_9.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
598	Components_9.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
599	Components_9.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
600	Components_9.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
601	Components_9.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
602	Components_9.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
603	Components_9.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
604	Components_9.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
605	Components_9.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
606	Components_9.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
607	Components_9.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
608	Components_9.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
609	Components_9.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
610	Components_9.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
611	Components_9.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
612	Components_9.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
613	Components_10.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
614	Components_10.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
615	Components_10.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
616	Components_10.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
617	Components_10.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
618	Components_10.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
619	Components_10.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
620	Components_10.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
621	Components_10.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
622	Components_10.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
623	Components_10.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
624	Components_10.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
625	Components_10.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
626	Components_10.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
627	Components_10.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
628	Components_10.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
629	Components_10.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
630	Components_10.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
631	Components_10.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
632	Components_10.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
633	Components_10.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
634	Components_10.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
635	Components_10.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
636	Components_10.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
637	Components_10.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
638	Components_11.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
639	Components_11.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
640	Components_11.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
641	Components_11.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
642	Components_11.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
643	Components_11.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
644	Components_11.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
645	Components_11.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
646	Components_11.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
647	Components_11.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
648	Components_11.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
649	Components_11.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
650	Components_11.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
651	Components_11.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
652	Components_11.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
653	Components_11.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
654	Components_11.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
655	Components_11.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
656	Components_11.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4

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657	Components_11.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
658	Components_11.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
659	Components_11.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
660	Components_11.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
661	Components_11.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
662	Components_11.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
663	Components_12.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
664	Components_12.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
665	Components_12.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
666	Components_12.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
667	Components_12.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
668	Components_12.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
669	Components_12.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
670	Components_12.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
671	Components_12.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
672	Components_12.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
673	Components_12.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
674	Components_12.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
675	Components_12.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
676	Components_12.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
677	Components_12.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
678	Components_12.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
679	Components_12.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
680	Components_12.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
681	Components_12.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
682	Components_12.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
683	Components_12.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
684	Components_12.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
685	Components_12.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
686	Components_12.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
687	Components_12.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
688	Components_13.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
689	Components_13.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
690	Components_13.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
691	Components_13.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
692	Components_13.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
693	Components_13.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
694	Components_13.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
695	Components_13.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
696	Components_13.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
697	Components_13.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
698	Components_13.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
699	Components_13.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
700	Components_13.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
701	Components_13.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
702	Components_13.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
703	Components_13.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
704	Components_13.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
705	Components_13.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
706	Components_13.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
707	Components_13.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
708	Components_13.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
709	Components_13.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
710	Components_13.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
711	Components_13.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
712	Components_13.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
713	Components_14.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
714	Components_14.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
715	Components_14.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
716	Components_14.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
717	Components_14.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
718	Components_14.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
719	Components_14.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
720	Components_14.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4

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721	Components_14.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
722	Components_14.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
723	Components_14.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
724	Components_14.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
725	Components_14.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
726	Components_14.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
727	Components_14.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
728	Components_14.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
729	Components_14.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
730	Components_14.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
731	Components_14.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
732	Components_14.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
733	Components_14.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
734	Components_14.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
735	Components_14.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
736	Components_14.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
737	Components_14.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
738	Components_15.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
739	Components_15.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
740	Components_15.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
741	Components_15.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
742	Components_15.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
743	Components_15.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
744	Components_15.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
745	Components_15.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
746	Components_15.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
747	Components_15.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
748	Components_15.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
749	Components_15.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
750	Components_15.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
751	Components_15.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
752	Components_15.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
753	Components_15.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
754	Components_15.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
755	Components_15.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
756	Components_15.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
757	Components_15.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
758	Components_15.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
759	Components_15.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
760	Components_15.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
761	Components_15.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
762	Components_15.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
763	Components_16.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
764	Components_16.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
765	Components_16.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
766	Components_16.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
767	Components_16.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
768	Components_16.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
769	Components_16.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
770	Components_16.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
771	Components_16.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
772	Components_16.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
773	Components_16.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
774	Components_16.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
775	Components_16.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
776	Components_16.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
777	Components_16.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
778	Components_16.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
779	Components_16.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
780	Components_16.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
781	Components_16.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
782	Components_16.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
783	Components_16.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
784	Components_16.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4

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785	Components_16.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
786	Components_16.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
787	Components_16.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
788	Components_17.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
789	Components_17.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
790	Components_17.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
791	Components_17.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
792	Components_17.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
793	Components_17.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
794	Components_17.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
795	Components_17.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
796	Components_17.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
797	Components_17.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
798	Components_17.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
799	Components_17.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
800	Components_17.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
801	Components_17.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
802	Components_17.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
803	Components_17.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
804	Components_17.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
805	Components_17.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
806	Components_17.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
807	Components_17.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
808	Components_17.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
809	Components_17.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
810	Components_17.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
811	Components_17.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
812	Components_17.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
813	Components_18.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
814	Components_18.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
815	Components_18.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
816	Components_18.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4



Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
817	Components_18.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
818	Components_18.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
819	Components_18.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
820	Components_18.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
821	Components_18.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
822	Components_18.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
823	Components_18.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
824	Components_18.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
825	Components_18.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
826	Components_18.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
827	Components_18.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
828	Components_18.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
829	Components_18.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
830	Components_18.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
831	Components_18.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
832	Components_18.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
833	Components_18.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
834	Components_18.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
835	Components_18.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
836	Components_18.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
837	Components_18.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
838	Components_19.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
839	Components_19.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
840	Components_19.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
841	Components_19.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
842	Components_19.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
843	Components_19.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
844	Components_19.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
845	Components_19.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
846	Components_19.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
847	Components_19.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
848	Components_19.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4

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849	Components_19.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
850	Components_19.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
851	Components_19.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
852	Components_19.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
853	Components_19.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
854	Components_19.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
855	Components_19.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
856	Components_19.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
857	Components_19.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
858	Components_19.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
859	Components_19.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
860	Components_19.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
861	Components_19.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
862	Components_19.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
863	Components_20.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
864	Components_20.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
865	Components_20.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
866	Components_20.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
867	Components_20.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
868	Components_20.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
869	Components_20.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
870	Components_20.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
871	Components_20.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
872	Components_20.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
873	Components_20.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
874	Components_20.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
875	Components_20.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
876	Components_20.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
877	Components_20.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
878	Components_20.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
879	Components_20.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
880	Components_20.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
881	Components_20.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
882	Components_20.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
883	Components_20.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
884	Components_20.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
885	Components_20.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
886	Components_20.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
887	Components_20.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
888	Components_21.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
889	Components_21.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
890	Components_21.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
891	Components_21.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
892	Components_21.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
893	Components_21.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
894	Components_21.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
895	Components_21.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
896	Components_21.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
897	Components_21.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
898	Components_21.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
899	Components_21.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
900	Components_21.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
901	Components_21.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
902	Components_21.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
903	Components_21.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
904	Components_21.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
905	Components_21.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
906	Components_21.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
907	Components_21.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
908	Components_21.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
909	Components_21.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
910	Components_21.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
911	Components_21.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
912	Components_21.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4

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Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
913	Components_22.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
914	Components_22.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
915	Components_22.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
916	Components_22.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
917	Components_22.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
918	Components_22.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
919	Components_22.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
920	Components_22.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
921	Components_22.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
922	Components_22.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
923	Components_22.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
924	Components_22.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
925	Components_22.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
926	Components_22.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
927	Components_22.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
928	Components_22.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
929	Components_22.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
930	Components_22.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
931	Components_22.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
932	Components_22.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
933	Components_22.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
934	Components_22.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
935	Components_22.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
936	Components_22.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
937	Components_22.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
938	Components_23.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
939	Components_23.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
940	Components_23.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
941	Components_23.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
942	Components_23.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
943	Components_23.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
944	Components_23.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
945	Components_23.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
946	Components_23.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
947	Components_23.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
948	Components_23.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
949	Components_23.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
950	Components_23.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
951	Components_23.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
952	Components_23.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
953	Components_23.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
954	Components_23.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
955	Components_23.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
956	Components_23.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
957	Components_23.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
958	Components_23.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
959	Components_23.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
960	Components_23.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
961	Components_23.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
962	Components_23.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
963	Components_24.USER_MODE	Class_3	SelectOperate	Variation 2	Variation 2
964	Components_24.C1_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
965	Components_24.N2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
966	Components_24.CO2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
967	Components_24.C2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
968	Components_24.C3_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
969	Components_24.H2O_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
970	Components_24.H2S_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
971	Components_24.H2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
972	Components_24.CO_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
973	Components_24.O2_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
974	Components_24.IC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
975	Components_24.NC4_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
976	Components_24.IC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4

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977	Components_24.NC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
978	Components_24.C6_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
979	Components_24.C7_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
980	Components_24.C8_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
981	Components_24.C9_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
982	Components_24.C10_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
983	Components_24.HE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
984	Components_24.AR_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
985	Components_24.NEOC5_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
986	Components_24.BENZENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
987	Components_24.TOLUENE_OVRD	Class_3	SelectOperate	Variation 4	Variation 4
988	IoConfig_2.CHAN_1_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
989	IoConfig_2.CHAN_2_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
990	IoConfig_2.CHAN_3_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
991	IoConfig_2.CHAN_4_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
992	IoConfig_2.CHAN_5_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
993	IoConfig_2.CHAN_6_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
994	IoConfig_2.CHAN_7_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
995	IoConfig_2.CHAN_8_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
996	IoConfig_2.CHAN_9_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
997	IoConfig_2.CHAN_10_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
998	IoConfig_2.CHAN_11_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
999	IoConfig_2.CHAN_12_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1000	IoConfig_3.CHAN_1_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1001	IoConfig_3.CHAN_2_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1002	IoConfig_3.CHAN_3_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1003	IoConfig_3.CHAN_4_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1004	IoConfig_3.CHAN_5_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1005	IoConfig_3.CHAN_6_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1006	IoConfig_3.CHAN_7_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1007	IoConfig_3.CHAN_8_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1008	IoConfig_3.CHAN_9_SELECT	Class_3	SelectOperate	Variation 2	Variation 2

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1009	IoConfig_3.CHAN_10_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1010	IoConfig_3.CHAN_11_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1011	IoConfig_3.CHAN_12_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1012	IoConfig_4.CHAN_1_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1013	IoConfig_4.CHAN_2_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1014	IoConfig_4.CHAN_3_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1015	IoConfig_4.CHAN_4_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1016	IoConfig_4.CHAN_5_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1017	IoConfig_4.CHAN_6_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1018	IoConfig_4.CHAN_7_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1019	IoConfig_4.CHAN_8_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1020	IoConfig_4.CHAN_9_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1021	IoConfig_4.CHAN_10_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1022	IoConfig_4.CHAN_11_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1023	IoConfig_4.CHAN_12_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1024	IoConfig_5.CHAN_1_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1025	IoConfig_5.CHAN_2_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1026	IoConfig_5.CHAN_3_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1027	IoConfig_5.CHAN_4_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1028	IoConfig_5.CHAN_5_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1029	IoConfig_5.CHAN_6_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1030	IoConfig_5.CHAN_7_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1031	IoConfig_5.CHAN_8_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1032	IoConfig_5.CHAN_9_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1033	IoConfig_5.CHAN_10_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1034	IoConfig_5.CHAN_11_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1035	IoConfig_5.CHAN_12_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1036	IoConfig_6.CHAN_1_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1037	IoConfig_6.CHAN_2_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1038	IoConfig_6.CHAN_3_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1039	IoConfig_6.CHAN_4_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1040	IoConfig_6.CHAN_5_SELECT	Class_3	SelectOperate	Variation 2	Variation 2

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1041	IoConfig_6.CHAN_6_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1042	IoConfig_6.CHAN_7_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1043	IoConfig_6.CHAN_8_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1044	IoConfig_6.CHAN_9_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1045	IoConfig_6.CHAN_10_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1046	IoConfig_6.CHAN_11_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1047	IoConfig_6.CHAN_12_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1048	IoConfig_7.CHAN_1_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1049	IoConfig_7.CHAN_2_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1050	IoConfig_7.CHAN_3_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1051	IoConfig_7.CHAN_4_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1052	IoConfig_7.CHAN_5_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1053	IoConfig_7.CHAN_6_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1054	IoConfig_7.CHAN_7_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1055	IoConfig_7.CHAN_8_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1056	IoConfig_7.CHAN_9_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1057	IoConfig_7.CHAN_10_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1058	IoConfig_7.CHAN_11_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1059	IoConfig_7.CHAN_12_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1060	IoConfig_8.CHAN_1_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1061	IoConfig_8.CHAN_2_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1062	IoConfig_8.CHAN_3_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1063	IoConfig_8.CHAN_4_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1064	IoConfig_8.CHAN_5_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1065	IoConfig_8.CHAN_6_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1066	IoConfig_8.CHAN_7_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1067	IoConfig_8.CHAN_8_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1068	IoConfig_8.CHAN_9_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1069	IoConfig_8.CHAN_10_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1070	IoConfig_8.CHAN_11_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1071	IoConfig_8.CHAN_12_SELECT	Class_3	SelectOperate	Variation 2	Variation 2
1072	User Data_1.FLOAT_1	None	SelectOperate	Variation 3	Variation 3



Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1073	User Data_1.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
1074	User Data_1.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
1075	User Data_1.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
1076	User Data_1.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
1077	User Data_1.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
1078	User Data_1.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
1079	User Data_1.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
1080	User Data_1.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
1081	User Data_1.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
1082	User Data_1.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
1083	User Data_1.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
1084	User Data_1.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
1085	User Data_1.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
1086	User Data_1.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
1087	User Data_1.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
1088	User Data_1.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
1089	User Data_1.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
1090	User Data_1.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
1091	User Data_1.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
1092	User Data_1.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
1093	User Data_1.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
1094	User Data_1.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
1095	User Data_1.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
1096	User Data_1.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
1097	User Data_1.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
1098	User Data_1.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
1099	User Data_1.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
1100	User Data_1.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
1101	User Data_1.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
1102	User Data_1.LONG_1	None	SelectOperate	Variation 1	Variation 1
1103	User Data_1.LONG_2	None	SelectOperate	Variation 1	Variation 1
1104	User Data_1.LONG_3	None	SelectOperate	Variation 1	Variation 1

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1105	User Data_1.LONG_4	None	SelectOperate	Variation 1	Variation 1
1106	User Data_1.LONG_5	None	SelectOperate	Variation 1	Variation 1
1107	User Data_1.LONG_6	None	SelectOperate	Variation 1	Variation 1
1108	User Data_1.LONG_7	None	SelectOperate	Variation 1	Variation 1
1109	User Data_1.LONG_8	None	SelectOperate	Variation 1	Variation 1
1110	User Data_1.LONG_9	None	SelectOperate	Variation 1	Variation 1
1111	User Data_1.LONG_10	None	SelectOperate	Variation 1	Variation 1
1112	User Data_1.SHORT_1	None	SelectOperate	Variation 2	Variation 2
1113	User Data_1.SHORT_2	None	SelectOperate	Variation 2	Variation 2
1114	User Data_1.SHORT_3	None	SelectOperate	Variation 2	Variation 2
1115	User Data_1.SHORT_4	None	SelectOperate	Variation 2	Variation 2
1116	User Data_1.SHORT_5	None	SelectOperate	Variation 2	Variation 2
1117	User Data_1.SHORT_6	None	SelectOperate	Variation 2	Variation 2
1118	User Data_1.SHORT_7	None	SelectOperate	Variation 2	Variation 2
1119	User Data_1.SHORT_8	None	SelectOperate	Variation 2	Variation 2
1120	User Data_1.SHORT_9	None	SelectOperate	Variation 2	Variation 2
1121	User Data_1.SHORT_10	None	SelectOperate	Variation 2	Variation 2
1122	User Data_1.BYTE_1	None	SelectOperate	Variation 2	Variation 2
1123	User Data_1.BYTE_2	None	SelectOperate	Variation 2	Variation 2
1124	User Data_1.BYTE_3	None	SelectOperate	Variation 2	Variation 2
1125	User Data_1.BYTE_4	None	SelectOperate	Variation 2	Variation 2
1126	User Data_1.BYTE_5	None	SelectOperate	Variation 2	Variation 2
1127	User Data_1.BYTE_6	None	SelectOperate	Variation 2	Variation 2
1128	User Data_1.BYTE_7	None	SelectOperate	Variation 2	Variation 2
1129	User Data_1.BYTE_8	None	SelectOperate	Variation 2	Variation 2
1130	User Data_1.BYTE_9	None	SelectOperate	Variation 2	Variation 2
1131	User Data_1.BYTE_10	None	SelectOperate	Variation 2	Variation 2
1132	User Data_2.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
1133	User Data_2.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
1134	User Data_2.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
1135	User Data_2.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
1136	User Data_2.FLOAT_5	None	SelectOperate	Variation 3	Variation 3

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1137	User Data_2.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
1138	User Data_2.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
1139	User Data_2.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
1140	User Data_2.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
1141	User Data_2.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
1142	User Data_2.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
1143	User Data_2.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
1144	User Data_2.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
1145	User Data_2.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
1146	User Data_2.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
1147	User Data_2.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
1148	User Data_2.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
1149	User Data_2.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
1150	User Data_2.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
1151	User Data_2.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
1152	User Data_2.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
1153	User Data_2.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
1154	User Data_2.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
1155	User Data_2.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
1156	User Data_2.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
1157	User Data_2.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
1158	User Data_2.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
1159	User Data_2.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
1160	User Data_2.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
1161	User Data_2.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
1162	User Data_2.LONG_1	None	SelectOperate	Variation 1	Variation 1
1163	User Data_2.LONG_2	None	SelectOperate	Variation 1	Variation 1
1164	User Data_2.LONG_3	None	SelectOperate	Variation 1	Variation 1
1165	User Data_2.LONG_4	None	SelectOperate	Variation 1	Variation 1
1166	User Data_2.LONG_5	None	SelectOperate	Variation 1	Variation 1
1167	User Data_2.LONG_6	None	SelectOperate	Variation 1	Variation 1
1168	User Data_2.LONG_7	None	SelectOperate	Variation 1	Variation 1

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1169	User Data_2.LONG_8	None	SelectOperate	Variation 1	Variation 1
1170	User Data_2.LONG_9	None	SelectOperate	Variation 1	Variation 1
1171	User Data_2.LONG_10	None	SelectOperate	Variation 1	Variation 1
1172	User Data_2.SHORT_1	None	SelectOperate	Variation 2	Variation 2
1173	User Data_2.SHORT_2	None	SelectOperate	Variation 2	Variation 2
1174	User Data_2.SHORT_3	None	SelectOperate	Variation 2	Variation 2
1175	User Data_2.SHORT_4	None	SelectOperate	Variation 2	Variation 2
1176	User Data_2.SHORT_5	None	SelectOperate	Variation 2	Variation 2
1177	User Data_2.SHORT_6	None	SelectOperate	Variation 2	Variation 2
1178	User Data_2.SHORT_7	None	SelectOperate	Variation 2	Variation 2
1179	User Data_2.SHORT_8	None	SelectOperate	Variation 2	Variation 2
1180	User Data_2.SHORT_9	None	SelectOperate	Variation 2	Variation 2
1181	User Data_2.SHORT_10	None	SelectOperate	Variation 2	Variation 2
1182	User Data_2.BYTE_1	None	SelectOperate	Variation 2	Variation 2
1183	User Data_2.BYTE_2	None	SelectOperate	Variation 2	Variation 2
1184	User Data_2.BYTE_3	None	SelectOperate	Variation 2	Variation 2
1185	User Data_2.BYTE_4	None	SelectOperate	Variation 2	Variation 2
1186	User Data_2.BYTE_5	None	SelectOperate	Variation 2	Variation 2
1187	User Data_2.BYTE_6	None	SelectOperate	Variation 2	Variation 2
1188	User Data_2.BYTE_7	None	SelectOperate	Variation 2	Variation 2
1189	User Data_2.BYTE_8	None	SelectOperate	Variation 2	Variation 2
1190	User Data_2.BYTE_9	None	SelectOperate	Variation 2	Variation 2
1191	User Data_2.BYTE_10	None	SelectOperate	Variation 2	Variation 2
1192	User Data_3.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
1193	User Data_3.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
1194	User Data_3.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
1195	User Data_3.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
1196	User Data_3.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
1197	User Data_3.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
1198	User Data_3.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
1199	User Data_3.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
1200	User Data_3.FLOAT_9	None	SelectOperate	Variation 3	Variation 3

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1201	User Data_3.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
1202	User Data_3.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
1203	User Data_3.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
1204	User Data_3.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
1205	User Data_3.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
1206	User Data_3.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
1207	User Data_3.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
1208	User Data_3.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
1209	User Data_3.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
1210	User Data_3.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
1211	User Data_3.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
1212	User Data_3.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
1213	User Data_3.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
1214	User Data_3.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
1215	User Data_3.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
1216	User Data_3.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
1217	User Data_3.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
1218	User Data_3.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
1219	User Data_3.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
1220	User Data_3.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
1221	User Data_3.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
1222	User Data_3.LONG_1	None	SelectOperate	Variation 1	Variation 1
1223	User Data_3.LONG_2	None	SelectOperate	Variation 1	Variation 1
1224	User Data_3.LONG_3	None	SelectOperate	Variation 1	Variation 1
1225	User Data_3.LONG_4	None	SelectOperate	Variation 1	Variation 1
1226	User Data_3.LONG_5	None	SelectOperate	Variation 1	Variation 1
1227	User Data_3.LONG_6	None	SelectOperate	Variation 1	Variation 1
1228	User Data_3.LONG_7	None	SelectOperate	Variation 1	Variation 1
1229	User Data_3.LONG_8	None	SelectOperate	Variation 1	Variation 1
1230	User Data_3.LONG_9	None	SelectOperate	Variation 1	Variation 1
1231	User Data_3.LONG_10	None	SelectOperate	Variation 1	Variation 1
1232	User Data_3.SHORT_1	None	SelectOperate	Variation 2	Variation 2

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Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1233	User Data_3.SHORT_2	None	SelectOperate	Variation 2	Variation 2
1234	User Data_3.SHORT_3	None	SelectOperate	Variation 2	Variation 2
1235	User Data_3.SHORT_4	None	SelectOperate	Variation 2	Variation 2
1236	User Data_3.SHORT_5	None	SelectOperate	Variation 2	Variation 2
1237	User Data_3.SHORT_6	None	SelectOperate	Variation 2	Variation 2
1238	User Data_3.SHORT_7	None	SelectOperate	Variation 2	Variation 2
1239	User Data_3.SHORT_8	None	SelectOperate	Variation 2	Variation 2
1240	User Data_3.SHORT_9	None	SelectOperate	Variation 2	Variation 2
1241	User Data_3.SHORT_10	None	SelectOperate	Variation 2	Variation 2
1242	User Data_3.BYTE_1	None	SelectOperate	Variation 2	Variation 2
1243	User Data_3.BYTE_2	None	SelectOperate	Variation 2	Variation 2
1244	User Data_3.BYTE_3	None	SelectOperate	Variation 2	Variation 2
1245	User Data_3.BYTE_4	None	SelectOperate	Variation 2	Variation 2
1246	User Data_3.BYTE_5	None	SelectOperate	Variation 2	Variation 2
1247	User Data_3.BYTE_6	None	SelectOperate	Variation 2	Variation 2
1248	User Data_3.BYTE_7	None	SelectOperate	Variation 2	Variation 2
1249	User Data_3.BYTE_8	None	SelectOperate	Variation 2	Variation 2
1250	User Data_3.BYTE_9	None	SelectOperate	Variation 2	Variation 2
1251	User Data_3.BYTE_10	None	SelectOperate	Variation 2	Variation 2
1252	User Data_4.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
1253	User Data_4.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
1254	User Data_4.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
1255	User Data_4.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
1256	User Data_4.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
1257	User Data_4.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
1258	User Data_4.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
1259	User Data_4.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
1260	User Data_4.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
1261	User Data_4.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
1262	User Data_4.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
1263	User Data_4.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
1264	User Data_4.FLOAT_13	None	SelectOperate	Variation 3	Variation 3

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1265	User Data_4.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
1266	User Data_4.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
1267	User Data_4.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
1268	User Data_4.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
1269	User Data_4.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
1270	User Data_4.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
1271	User Data_4.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
1272	User Data_4.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
1273	User Data_4.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
1274	User Data_4.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
1275	User Data_4.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
1276	User Data_4.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
1277	User Data_4.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
1278	User Data_4.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
1279	User Data_4.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
1280	User Data_4.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
1281	User Data_4.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
1282	User Data_4.LONG_1	None	SelectOperate	Variation 1	Variation 1
1283	User Data_4.LONG_2	None	SelectOperate	Variation 1	Variation 1
1284	User Data_4.LONG_3	None	SelectOperate	Variation 1	Variation 1
1285	User Data_4.LONG_4	None	SelectOperate	Variation 1	Variation 1
1286	User Data_4.LONG_5	None	SelectOperate	Variation 1	Variation 1
1287	User Data_4.LONG_6	None	SelectOperate	Variation 1	Variation 1
1288	User Data_4.LONG_7	None	SelectOperate	Variation 1	Variation 1
1289	User Data_4.LONG_8	None	SelectOperate	Variation 1	Variation 1
1290	User Data_4.LONG_9	None	SelectOperate	Variation 1	Variation 1
1291	User Data_4.LONG_10	None	SelectOperate	Variation 1	Variation 1
1292	User Data_4.SHORT_1	None	SelectOperate	Variation 2	Variation 2
1293	User Data_4.SHORT_2	None	SelectOperate	Variation 2	Variation 2
1294	User Data_4.SHORT_3	None	SelectOperate	Variation 2	Variation 2
1295	User Data_4.SHORT_4	None	SelectOperate	Variation 2	Variation 2
1296	User Data_4.SHORT_5	None	SelectOperate	Variation 2	Variation 2

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1297	User Data_4.SHORT_6	None	SelectOperate	Variation 2	Variation 2
1298	User Data_4.SHORT_7	None	SelectOperate	Variation 2	Variation 2
1299	User Data_4.SHORT_8	None	SelectOperate	Variation 2	Variation 2
1300	User Data_4.SHORT_9	None	SelectOperate	Variation 2	Variation 2
1301	User Data_4.SHORT_10	None	SelectOperate	Variation 2	Variation 2
1302	User Data_4.BYTE_1	None	SelectOperate	Variation 2	Variation 2
1303	User Data_4.BYTE_2	None	SelectOperate	Variation 2	Variation 2
1304	User Data_4.BYTE_3	None	SelectOperate	Variation 2	Variation 2
1305	User Data_4.BYTE_4	None	SelectOperate	Variation 2	Variation 2
1306	User Data_4.BYTE_5	None	SelectOperate	Variation 2	Variation 2
1307	User Data_4.BYTE_6	None	SelectOperate	Variation 2	Variation 2
1308	User Data_4.BYTE_7	None	SelectOperate	Variation 2	Variation 2
1309	User Data_4.BYTE_8	None	SelectOperate	Variation 2	Variation 2
1310	User Data_4.BYTE_9	None	SelectOperate	Variation 2	Variation 2
1311	User Data_4.BYTE_10	None	SelectOperate	Variation 2	Variation 2
1312	User Data_5.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
1313	User Data_5.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
1314	User Data_5.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
1315	User Data_5.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
1316	User Data_5.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
1317	User Data_5.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
1318	User Data_5.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
1319	User Data_5.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
1320	User Data_5.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
1321	User Data_5.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
1322	User Data_5.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
1323	User Data_5.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
1324	User Data_5.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
1325	User Data_5.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
1326	User Data_5.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
1327	User Data_5.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
1328	User Data_5.FLOAT_17	None	SelectOperate	Variation 3	Variation 3



Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1329	User Data_5.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
1330	User Data_5.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
1331	User Data_5.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
1332	User Data_5.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
1333	User Data_5.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
1334	User Data_5.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
1335	User Data_5.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
1336	User Data_5.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
1337	User Data_5.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
1338	User Data_5.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
1339	User Data_5.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
1340	User Data_5.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
1341	User Data_5.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
1342	User Data_5.LONG_1	None	SelectOperate	Variation 1	Variation 1
1343	User Data_5.LONG_2	None	SelectOperate	Variation 1	Variation 1
1344	User Data_5.LONG_3	None	SelectOperate	Variation 1	Variation 1
1345	User Data_5.LONG_4	None	SelectOperate	Variation 1	Variation 1
1346	User Data_5.LONG_5	None	SelectOperate	Variation 1	Variation 1
1347	User Data_5.LONG_6	None	SelectOperate	Variation 1	Variation 1
1348	User Data_5.LONG_7	None	SelectOperate	Variation 1	Variation 1
1349	User Data_5.LONG_8	None	SelectOperate	Variation 1	Variation 1
1350	User Data_5.LONG_9	None	SelectOperate	Variation 1	Variation 1
1351	User Data_5.LONG_10	None	SelectOperate	Variation 1	Variation 1
1352	User Data_5.SHORT_1	None	SelectOperate	Variation 2	Variation 2
1353	User Data_5.SHORT_2	None	SelectOperate	Variation 2	Variation 2
1354	User Data_5.SHORT_3	None	SelectOperate	Variation 2	Variation 2
1355	User Data_5.SHORT_4	None	SelectOperate	Variation 2	Variation 2
1356	User Data_5.SHORT_5	None	SelectOperate	Variation 2	Variation 2
1357	User Data_5.SHORT_6	None	SelectOperate	Variation 2	Variation 2
1358	User Data_5.SHORT_7	None	SelectOperate	Variation 2	Variation 2
1359	User Data_5.SHORT_8	None	SelectOperate	Variation 2	Variation 2
1360	User Data_5.SHORT_9	None	SelectOperate	Variation 2	Variation 2

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1361	User Data_5.SHORT_10	None	SelectOperate	Variation 2	Variation 2
1362	User Data_5.BYTE_1	None	SelectOperate	Variation 2	Variation 2
1363	User Data_5.BYTE_2	None	SelectOperate	Variation 2	Variation 2
1364	User Data_5.BYTE_3	None	SelectOperate	Variation 2	Variation 2
1365	User Data_5.BYTE_4	None	SelectOperate	Variation 2	Variation 2
1366	User Data_5.BYTE_5	None	SelectOperate	Variation 2	Variation 2
1367	User Data_5.BYTE_6	None	SelectOperate	Variation 2	Variation 2
1368	User Data_5.BYTE_7	None	SelectOperate	Variation 2	Variation 2
1369	User Data_5.BYTE_8	None	SelectOperate	Variation 2	Variation 2
1370	User Data_5.BYTE_9	None	SelectOperate	Variation 2	Variation 2
1371	User Data_5.BYTE_10	None	SelectOperate	Variation 2	Variation 2
1372	User Data_6.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
1373	User Data_6.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
1374	User Data_6.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
1375	User Data_6.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
1376	User Data_6.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
1377	User Data_6.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
1378	User Data_6.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
1379	User Data_6.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
1380	User Data_6.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
1381	User Data_6.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
1382	User Data_6.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
1383	User Data_6.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
1384	User Data_6.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
1385	User Data_6.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
1386	User Data_6.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
1387	User Data_6.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
1388	User Data_6.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
1389	User Data_6.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
1390	User Data_6.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
1391	User Data_6.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
1392	User Data_6.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1393	User Data_6.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
1394	User Data_6.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
1395	User Data_6.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
1396	User Data_6.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
1397	User Data_6.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
1398	User Data_6.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
1399	User Data_6.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
1400	User Data_6.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
1401	User Data_6.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
1402	User Data_6.LONG_1	None	SelectOperate	Variation 1	Variation 1
1403	User Data_6.LONG_2	None	SelectOperate	Variation 1	Variation 1
1404	User Data_6.LONG_3	None	SelectOperate	Variation 1	Variation 1
1405	User Data_6.LONG_4	None	SelectOperate	Variation 1	Variation 1
1406	User Data_6.LONG_5	None	SelectOperate	Variation 1	Variation 1
1407	User Data_6.LONG_6	None	SelectOperate	Variation 1	Variation 1
1408	User Data_6.LONG_7	None	SelectOperate	Variation 1	Variation 1
1409	User Data_6.LONG_8	None	SelectOperate	Variation 1	Variation 1
1410	User Data_6.LONG_9	None	SelectOperate	Variation 1	Variation 1
1411	User Data_6.LONG_10	None	SelectOperate	Variation 1	Variation 1
1412	User Data_6.SHORT_1	None	SelectOperate	Variation 2	Variation 2
1413	User Data_6.SHORT_2	None	SelectOperate	Variation 2	Variation 2
1414	User Data_6.SHORT_3	None	SelectOperate	Variation 2	Variation 2
1415	User Data_6.SHORT_4	None	SelectOperate	Variation 2	Variation 2
1416	User Data_6.SHORT_5	None	SelectOperate	Variation 2	Variation 2
1417	User Data_6.SHORT_6	None	SelectOperate	Variation 2	Variation 2
1418	User Data_6.SHORT_7	None	SelectOperate	Variation 2	Variation 2
1419	User Data_6.SHORT_8	None	SelectOperate	Variation 2	Variation 2
1420	User Data_6.SHORT_9	None	SelectOperate	Variation 2	Variation 2
1421	User Data_6.SHORT_10	None	SelectOperate	Variation 2	Variation 2
1422	User Data_6.BYTE_1	None	SelectOperate	Variation 2	Variation 2
1423	User Data_6.BYTE_2	None	SelectOperate	Variation 2	Variation 2
1424	User Data_6.BYTE_3	None	SelectOperate	Variation 2	Variation 2

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1425	User Data_6.BYTE_4	None	SelectOperate	Variation 2	Variation 2
1426	User Data_6.BYTE_5	None	SelectOperate	Variation 2	Variation 2
1427	User Data_6.BYTE_6	None	SelectOperate	Variation 2	Variation 2
1428	User Data_6.BYTE_7	None	SelectOperate	Variation 2	Variation 2
1429	User Data_6.BYTE_8	None	SelectOperate	Variation 2	Variation 2
1430	User Data_6.BYTE_9	None	SelectOperate	Variation 2	Variation 2
1431	User Data_6.BYTE_10	None	SelectOperate	Variation 2	Variation 2
1432	User Data_7.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
1433	User Data_7.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
1434	User Data_7.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
1435	User Data_7.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
1436	User Data_7.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
1437	User Data_7.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
1438	User Data_7.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
1439	User Data_7.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
1440	User Data_7.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
1441	User Data_7.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
1442	User Data_7.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
1443	User Data_7.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
1444	User Data_7.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
1445	User Data_7.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
1446	User Data_7.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
1447	User Data_7.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
1448	User Data_7.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
1449	User Data_7.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
1450	User Data_7.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
1451	User Data_7.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
1452	User Data_7.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
1453	User Data_7.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
1454	User Data_7.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
1455	User Data_7.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
1456	User Data_7.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1457	User Data_7.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
1458	User Data_7.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
1459	User Data_7.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
1460	User Data_7.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
1461	User Data_7.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
1462	User Data_7.LONG_1	None	SelectOperate	Variation 1	Variation 1
1463	User Data_7.LONG_2	None	SelectOperate	Variation 1	Variation 1
1464	User Data_7.LONG_3	None	SelectOperate	Variation 1	Variation 1
1465	User Data_7.LONG_4	None	SelectOperate	Variation 1	Variation 1
1466	User Data_7.LONG_5	None	SelectOperate	Variation 1	Variation 1
1467	User Data_7.LONG_6	None	SelectOperate	Variation 1	Variation 1
1468	User Data_7.LONG_7	None	SelectOperate	Variation 1	Variation 1
1469	User Data_7.LONG_8	None	SelectOperate	Variation 1	Variation 1
1470	User Data_7.LONG_9	None	SelectOperate	Variation 1	Variation 1
1471	User Data_7.LONG_10	None	SelectOperate	Variation 1	Variation 1
1472	User Data_7.SHORT_1	None	SelectOperate	Variation 2	Variation 2
1473	User Data_7.SHORT_2	None	SelectOperate	Variation 2	Variation 2
1474	User Data_7.SHORT_3	None	SelectOperate	Variation 2	Variation 2
1475	User Data_7.SHORT_4	None	SelectOperate	Variation 2	Variation 2
1476	User Data_7.SHORT_5	None	SelectOperate	Variation 2	Variation 2
1477	User Data_7.SHORT_6	None	SelectOperate	Variation 2	Variation 2
1478	User Data_7.SHORT_7	None	SelectOperate	Variation 2	Variation 2
1479	User Data_7.SHORT_8	None	SelectOperate	Variation 2	Variation 2
1480	User Data_7.SHORT_9	None	SelectOperate	Variation 2	Variation 2
1481	User Data_7.SHORT_10	None	SelectOperate	Variation 2	Variation 2
1482	User Data_7.BYTE_1	None	SelectOperate	Variation 2	Variation 2
1483	User Data_7.BYTE_2	None	SelectOperate	Variation 2	Variation 2
1484	User Data_7.BYTE_3	None	SelectOperate	Variation 2	Variation 2
1485	User Data_7.BYTE_4	None	SelectOperate	Variation 2	Variation 2
1486	User Data_7.BYTE_5	None	SelectOperate	Variation 2	Variation 2
1487	User Data_7.BYTE_6	None	SelectOperate	Variation 2	Variation 2
1488	User Data_7.BYTE_7	None	SelectOperate	Variation 2	Variation 2

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1489	User Data_7.BYTE_8	None	SelectOperate	Variation 2	Variation 2
1490	User Data_7.BYTE_9	None	SelectOperate	Variation 2	Variation 2
1491	User Data_7.BYTE_10	None	SelectOperate	Variation 2	Variation 2
1492	User Data_8.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
1493	User Data_8.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
1494	User Data_8.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
1495	User Data_8.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
1496	User Data_8.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
1497	User Data_8.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
1498	User Data_8.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
1499	User Data_8.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
1500	User Data_8.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
1501	User Data_8.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
1502	User Data_8.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
1503	User Data_8.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
1504	User Data_8.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
1505	User Data_8.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
1506	User Data_8.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
1507	User Data_8.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
1508	User Data_8.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
1509	User Data_8.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
1510	User Data_8.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
1511	User Data_8.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
1512	User Data_8.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
1513	User Data_8.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
1514	User Data_8.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
1515	User Data_8.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
1516	User Data_8.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
1517	User Data_8.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
1518	User Data_8.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
1519	User Data_8.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
1520	User Data_8.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1521	User Data_8.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
1522	User Data_8.LONG_1	None	SelectOperate	Variation 1	Variation 1
1523	User Data_8.LONG_2	None	SelectOperate	Variation 1	Variation 1
1524	User Data_8.LONG_3	None	SelectOperate	Variation 1	Variation 1
1525	User Data_8.LONG_4	None	SelectOperate	Variation 1	Variation 1
1526	User Data_8.LONG_5	None	SelectOperate	Variation 1	Variation 1
1527	User Data_8.LONG_6	None	SelectOperate	Variation 1	Variation 1
1528	User Data_8.LONG_7	None	SelectOperate	Variation 1	Variation 1
1529	User Data_8.LONG_8	None	SelectOperate	Variation 1	Variation 1
1530	User Data_8.LONG_9	None	SelectOperate	Variation 1	Variation 1
1531	User Data_8.LONG_10	None	SelectOperate	Variation 1	Variation 1
1532	User Data_8.SHORT_1	None	SelectOperate	Variation 2	Variation 2
1533	User Data_8.SHORT_2	None	SelectOperate	Variation 2	Variation 2
1534	User Data_8.SHORT_3	None	SelectOperate	Variation 2	Variation 2
1535	User Data_8.SHORT_4	None	SelectOperate	Variation 2	Variation 2
1536	User Data_8.SHORT_5	None	SelectOperate	Variation 2	Variation 2
1537	User Data_8.SHORT_6	None	SelectOperate	Variation 2	Variation 2
1538	User Data_8.SHORT_7	None	SelectOperate	Variation 2	Variation 2
1539	User Data_8.SHORT_8	None	SelectOperate	Variation 2	Variation 2
1540	User Data_8.SHORT_9	None	SelectOperate	Variation 2	Variation 2
1541	User Data_8.SHORT_10	None	SelectOperate	Variation 2	Variation 2
1542	User Data_8.BYTE_1	None	SelectOperate	Variation 2	Variation 2
1543	User Data_8.BYTE_2	None	SelectOperate	Variation 2	Variation 2
1544	User Data_8.BYTE_3	None	SelectOperate	Variation 2	Variation 2
1545	User Data_8.BYTE_4	None	SelectOperate	Variation 2	Variation 2
1546	User Data_8.BYTE_5	None	SelectOperate	Variation 2	Variation 2
1547	User Data_8.BYTE_6	None	SelectOperate	Variation 2	Variation 2
1548	User Data_8.BYTE_7	None	SelectOperate	Variation 2	Variation 2
1549	User Data_8.BYTE_8	None	SelectOperate	Variation 2	Variation 2
1550	User Data_8.BYTE_9	None	SelectOperate	Variation 2	Variation 2
1551	User Data_8.BYTE_10	None	SelectOperate	Variation 2	Variation 2
1552	User Data_9.FLOAT_1	None	SelectOperate	Variation 3	Variation 3

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Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1553	User Data_9.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
1554	User Data_9.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
1555	User Data_9.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
1556	User Data_9.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
1557	User Data_9.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
1558	User Data_9.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
1559	User Data_9.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
1560	User Data_9.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
1561	User Data_9.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
1562	User Data_9.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
1563	User Data_9.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
1564	User Data_9.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
1565	User Data_9.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
1566	User Data_9.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
1567	User Data_9.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
1568	User Data_9.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
1569	User Data_9.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
1570	User Data_9.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
1571	User Data_9.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
1572	User Data_9.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
1573	User Data_9.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
1574	User Data_9.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
1575	User Data_9.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
1576	User Data_9.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
1577	User Data_9.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
1578	User Data_9.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
1579	User Data_9.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
1580	User Data_9.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
1581	User Data_9.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
1582	User Data_9.LONG_1	None	SelectOperate	Variation 1	Variation 1
1583	User Data_9.LONG_2	None	SelectOperate	Variation 1	Variation 1
1584	User Data_9.LONG_3	None	SelectOperate	Variation 1	Variation 1



Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1585	User Data_9.LONG_4	None	SelectOperate	Variation 1	Variation 1
1586	User Data_9.LONG_5	None	SelectOperate	Variation 1	Variation 1
1587	User Data_9.LONG_6	None	SelectOperate	Variation 1	Variation 1
1588	User Data_9.LONG_7	None	SelectOperate	Variation 1	Variation 1
1589	User Data_9.LONG_8	None	SelectOperate	Variation 1	Variation 1
1590	User Data_9.LONG_9	None	SelectOperate	Variation 1	Variation 1
1591	User Data_9.LONG_10	None	SelectOperate	Variation 1	Variation 1
1592	User Data_9.SHORT_1	None	SelectOperate	Variation 2	Variation 2
1593	User Data_9.SHORT_2	None	SelectOperate	Variation 2	Variation 2
1594	User Data_9.SHORT_3	None	SelectOperate	Variation 2	Variation 2
1595	User Data_9.SHORT_4	None	SelectOperate	Variation 2	Variation 2
1596	User Data_9.SHORT_5	None	SelectOperate	Variation 2	Variation 2
1597	User Data_9.SHORT_6	None	SelectOperate	Variation 2	Variation 2
1598	User Data_9.SHORT_7	None	SelectOperate	Variation 2	Variation 2
1599	User Data_9.SHORT_8	None	SelectOperate	Variation 2	Variation 2
1600	User Data_9.SHORT_9	None	SelectOperate	Variation 2	Variation 2
1601	User Data_9.SHORT_10	None	SelectOperate	Variation 2	Variation 2
1602	User Data_9.BYTE_1	None	SelectOperate	Variation 2	Variation 2
1603	User Data_9.BYTE_2	None	SelectOperate	Variation 2	Variation 2
1604	User Data_9.BYTE_3	None	SelectOperate	Variation 2	Variation 2
1605	User Data_9.BYTE_4	None	SelectOperate	Variation 2	Variation 2
1606	User Data_9.BYTE_5	None	SelectOperate	Variation 2	Variation 2
1607	User Data_9.BYTE_6	None	SelectOperate	Variation 2	Variation 2
1608	User Data_9.BYTE_7	None	SelectOperate	Variation 2	Variation 2
1609	User Data_9.BYTE_8	None	SelectOperate	Variation 2	Variation 2
1610	User Data_9.BYTE_9	None	SelectOperate	Variation 2	Variation 2
1611	User Data_9.BYTE_10	None	SelectOperate	Variation 2	Variation 2
1612	User Data_10.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
1613	User Data_10.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
1614	User Data_10.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
1615	User Data_10.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
1616	User Data_10.FLOAT_5	None	SelectOperate	Variation 3	Variation 3

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Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1617	User Data_10.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
1618	User Data_10.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
1619	User Data_10.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
1620	User Data_10.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
1621	User Data_10.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
1622	User Data_10.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
1623	User Data_10.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
1624	User Data_10.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
1625	User Data_10.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
1626	User Data_10.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
1627	User Data_10.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
1628	User Data_10.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
1629	User Data_10.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
1630	User Data_10.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
1631	User Data_10.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
1632	User Data_10.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
1633	User Data_10.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
1634	User Data_10.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
1635	User Data_10.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
1636	User Data_10.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
1637	User Data_10.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
1638	User Data_10.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
1639	User Data_10.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
1640	User Data_10.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
1641	User Data_10.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
1642	User Data_10.LONG_1	None	SelectOperate	Variation 1	Variation 1
1643	User Data_10.LONG_2	None	SelectOperate	Variation 1	Variation 1
1644	User Data_10.LONG_3	None	SelectOperate	Variation 1	Variation 1
1645	User Data_10.LONG_4	None	SelectOperate	Variation 1	Variation 1
1646	User Data_10.LONG_5	None	SelectOperate	Variation 1	Variation 1
1647	User Data_10.LONG_6	None	SelectOperate	Variation 1	Variation 1
1648	User Data_10.LONG_7	None	SelectOperate	Variation 1	Variation 1

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1649	User Data_10.LONG_8	None	SelectOperate	Variation 1	Variation 1
1650	User Data_10.LONG_9	None	SelectOperate	Variation 1	Variation 1
1651	User Data_10.LONG_10	None	SelectOperate	Variation 1	Variation 1
1652	User Data_10.SHORT_1	None	SelectOperate	Variation 2	Variation 2
1653	User Data_10.SHORT_2	None	SelectOperate	Variation 2	Variation 2
1654	User Data_10.SHORT_3	None	SelectOperate	Variation 2	Variation 2
1655	User Data_10.SHORT_4	None	SelectOperate	Variation 2	Variation 2
1656	User Data_10.SHORT_5	None	SelectOperate	Variation 2	Variation 2
1657	User Data_10.SHORT_6	None	SelectOperate	Variation 2	Variation 2
1658	User Data_10.SHORT_7	None	SelectOperate	Variation 2	Variation 2
1659	User Data_10.SHORT_8	None	SelectOperate	Variation 2	Variation 2
1660	User Data_10.SHORT_9	None	SelectOperate	Variation 2	Variation 2
1661	User Data_10.SHORT_10	None	SelectOperate	Variation 2	Variation 2
1662	User Data_10.BYTE_1	None	SelectOperate	Variation 2	Variation 2
1663	User Data_10.BYTE_2	None	SelectOperate	Variation 2	Variation 2
1664	User Data_10.BYTE_3	None	SelectOperate	Variation 2	Variation 2
1665	User Data_10.BYTE_4	None	SelectOperate	Variation 2	Variation 2
1666	User Data_10.BYTE_5	None	SelectOperate	Variation 2	Variation 2
1667	User Data_10.BYTE_6	None	SelectOperate	Variation 2	Variation 2
1668	User Data_10.BYTE_7	None	SelectOperate	Variation 2	Variation 2
1669	User Data_10.BYTE_8	None	SelectOperate	Variation 2	Variation 2
1670	User Data_10.BYTE_9	None	SelectOperate	Variation 2	Variation 2
1671	User Data_10.BYTE_10	None	SelectOperate	Variation 2	Variation 2
1672	User Data_11.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
1673	User Data_11.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
1674	User Data_11.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
1675	User Data_11.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
1676	User Data_11.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
1677	User Data_11.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
1678	User Data_11.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
1679	User Data_11.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
1680	User Data_11.FLOAT_9	None	SelectOperate	Variation 3	Variation 3

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Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1681	User Data_11.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
1682	User Data_11.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
1683	User Data_11.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
1684	User Data_11.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
1685	User Data_11.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
1686	User Data_11.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
1687	User Data_11.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
1688	User Data_11.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
1689	User Data_11.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
1690	User Data_11.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
1691	User Data_11.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
1692	User Data_11.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
1693	User Data_11.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
1694	User Data_11.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
1695	User Data_11.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
1696	User Data_11.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
1697	User Data_11.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
1698	User Data_11.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
1699	User Data_11.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
1700	User Data_11.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
1701	User Data_11.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
1702	User Data_11.LONG_1	None	SelectOperate	Variation 1	Variation 1
1703	User Data_11.LONG_2	None	SelectOperate	Variation 1	Variation 1
1704	User Data_11.LONG_3	None	SelectOperate	Variation 1	Variation 1
1705	User Data_11.LONG_4	None	SelectOperate	Variation 1	Variation 1
1706	User Data_11.LONG_5	None	SelectOperate	Variation 1	Variation 1
1707	User Data_11.LONG_6	None	SelectOperate	Variation 1	Variation 1
1708	User Data_11.LONG_7	None	SelectOperate	Variation 1	Variation 1
1709	User Data_11.LONG_8	None	SelectOperate	Variation 1	Variation 1
1710	User Data_11.LONG_9	None	SelectOperate	Variation 1	Variation 1
1711	User Data_11.LONG_10	None	SelectOperate	Variation 1	Variation 1
1712	User Data_11.SHORT_1	None	SelectOperate	Variation 2	Variation 2

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1713	User Data_11.SHORT_2	None	SelectOperate	Variation 2	Variation 2
1714	User Data_11.SHORT_3	None	SelectOperate	Variation 2	Variation 2
1715	User Data_11.SHORT_4	None	SelectOperate	Variation 2	Variation 2
1716	User Data_11.SHORT_5	None	SelectOperate	Variation 2	Variation 2
1717	User Data_11.SHORT_6	None	SelectOperate	Variation 2	Variation 2
1718	User Data_11.SHORT_7	None	SelectOperate	Variation 2	Variation 2
1719	User Data_11.SHORT_8	None	SelectOperate	Variation 2	Variation 2
1720	User Data_11.SHORT_9	None	SelectOperate	Variation 2	Variation 2
1721	User Data_11.SHORT_10	None	SelectOperate	Variation 2	Variation 2
1722	User Data_11.BYTE_1	None	SelectOperate	Variation 2	Variation 2
1723	User Data_11.BYTE_2	None	SelectOperate	Variation 2	Variation 2
1724	User Data_11.BYTE_3	None	SelectOperate	Variation 2	Variation 2
1725	User Data_11.BYTE_4	None	SelectOperate	Variation 2	Variation 2
1726	User Data_11.BYTE_5	None	SelectOperate	Variation 2	Variation 2
1727	User Data_11.BYTE_6	None	SelectOperate	Variation 2	Variation 2
1728	User Data_11.BYTE_7	None	SelectOperate	Variation 2	Variation 2
1729	User Data_11.BYTE_8	None	SelectOperate	Variation 2	Variation 2
1730	User Data_11.BYTE_9	None	SelectOperate	Variation 2	Variation 2
1731	User Data_11.BYTE_10	None	SelectOperate	Variation 2	Variation 2
1732	User Data_12.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
1733	User Data_12.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
1734	User Data_12.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
1735	User Data_12.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
1736	User Data_12.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
1737	User Data_12.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
1738	User Data_12.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
1739	User Data_12.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
1740	User Data_12.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
1741	User Data_12.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
1742	User Data_12.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
1743	User Data_12.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
1744	User Data_12.FLOAT_13	None	SelectOperate	Variation 3	Variation 3

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Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1745	User Data_12.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
1746	User Data_12.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
1747	User Data_12.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
1748	User Data_12.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
1749	User Data_12.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
1750	User Data_12.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
1751	User Data_12.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
1752	User Data_12.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
1753	User Data_12.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
1754	User Data_12.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
1755	User Data_12.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
1756	User Data_12.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
1757	User Data_12.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
1758	User Data_12.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
1759	User Data_12.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
1760	User Data_12.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
1761	User Data_12.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
1762	User Data_12.LONG_1	None	SelectOperate	Variation 1	Variation 1
1763	User Data_12.LONG_2	None	SelectOperate	Variation 1	Variation 1
1764	User Data_12.LONG_3	None	SelectOperate	Variation 1	Variation 1
1765	User Data_12.LONG_4	None	SelectOperate	Variation 1	Variation 1
1766	User Data_12.LONG_5	None	SelectOperate	Variation 1	Variation 1
1767	User Data_12.LONG_6	None	SelectOperate	Variation 1	Variation 1
1768	User Data_12.LONG_7	None	SelectOperate	Variation 1	Variation 1
1769	User Data_12.LONG_8	None	SelectOperate	Variation 1	Variation 1
1770	User Data_12.LONG_9	None	SelectOperate	Variation 1	Variation 1
1771	User Data_12.LONG_10	None	SelectOperate	Variation 1	Variation 1
1772	User Data_12.SHORT_1	None	SelectOperate	Variation 2	Variation 2
1773	User Data_12.SHORT_2	None	SelectOperate	Variation 2	Variation 2
1774	User Data_12.SHORT_3	None	SelectOperate	Variation 2	Variation 2
1775	User Data_12.SHORT_4	None	SelectOperate	Variation 2	Variation 2
1776	User Data_12.SHORT_5	None	SelectOperate	Variation 2	Variation 2

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1777	User Data_12.SHORT_6	None	SelectOperate	Variation 2	Variation 2
1778	User Data_12.SHORT_7	None	SelectOperate	Variation 2	Variation 2
1779	User Data_12.SHORT_8	None	SelectOperate	Variation 2	Variation 2
1780	User Data_12.SHORT_9	None	SelectOperate	Variation 2	Variation 2
1781	User Data_12.SHORT_10	None	SelectOperate	Variation 2	Variation 2
1782	User Data_12.BYTE_1	None	SelectOperate	Variation 2	Variation 2
1783	User Data_12.BYTE_2	None	SelectOperate	Variation 2	Variation 2
1784	User Data_12.BYTE_3	None	SelectOperate	Variation 2	Variation 2
1785	User Data_12.BYTE_4	None	SelectOperate	Variation 2	Variation 2
1786	User Data_12.BYTE_5	None	SelectOperate	Variation 2	Variation 2
1787	User Data_12.BYTE_6	None	SelectOperate	Variation 2	Variation 2
1788	User Data_12.BYTE_7	None	SelectOperate	Variation 2	Variation 2
1789	User Data_12.BYTE_8	None	SelectOperate	Variation 2	Variation 2
1790	User Data_12.BYTE_9	None	SelectOperate	Variation 2	Variation 2
1791	User Data_12.BYTE_10	None	SelectOperate	Variation 2	Variation 2
1792	User Data_13.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
1793	User Data_13.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
1794	User Data_13.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
1795	User Data_13.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
1796	User Data_13.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
1797	User Data_13.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
1798	User Data_13.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
1799	User Data_13.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
1800	User Data_13.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
1801	User Data_13.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
1802	User Data_13.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
1803	User Data_13.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
1804	User Data_13.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
1805	User Data_13.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
1806	User Data_13.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
1807	User Data_13.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
1808	User Data_13.FLOAT_17	None	SelectOperate	Variation 3	Variation 3

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Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1809	User Data_13.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
1810	User Data_13.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
1811	User Data_13.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
1812	User Data_13.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
1813	User Data_13.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
1814	User Data_13.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
1815	User Data_13.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
1816	User Data_13.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
1817	User Data_13.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
1818	User Data_13.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
1819	User Data_13.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
1820	User Data_13.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
1821	User Data_13.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
1822	User Data_13.LONG_1	None	SelectOperate	Variation 1	Variation 1
1823	User Data_13.LONG_2	None	SelectOperate	Variation 1	Variation 1
1824	User Data_13.LONG_3	None	SelectOperate	Variation 1	Variation 1
1825	User Data_13.LONG_4	None	SelectOperate	Variation 1	Variation 1
1826	User Data_13.LONG_5	None	SelectOperate	Variation 1	Variation 1
1827	User Data_13.LONG_6	None	SelectOperate	Variation 1	Variation 1
1828	User Data_13.LONG_7	None	SelectOperate	Variation 1	Variation 1
1829	User Data_13.LONG_8	None	SelectOperate	Variation 1	Variation 1
1830	User Data_13.LONG_9	None	SelectOperate	Variation 1	Variation 1
1831	User Data_13.LONG_10	None	SelectOperate	Variation 1	Variation 1
1832	User Data_13.SHORT_1	None	SelectOperate	Variation 2	Variation 2
1833	User Data_13.SHORT_2	None	SelectOperate	Variation 2	Variation 2
1834	User Data_13.SHORT_3	None	SelectOperate	Variation 2	Variation 2
1835	User Data_13.SHORT_4	None	SelectOperate	Variation 2	Variation 2
1836	User Data_13.SHORT_5	None	SelectOperate	Variation 2	Variation 2
1837	User Data_13.SHORT_6	None	SelectOperate	Variation 2	Variation 2
1838	User Data_13.SHORT_7	None	SelectOperate	Variation 2	Variation 2
1839	User Data_13.SHORT_8	None	SelectOperate	Variation 2	Variation 2
1840	User Data_13.SHORT_9	None	SelectOperate	Variation 2	Variation 2



Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1841	User Data_13.SHORT_10	None	SelectOperate	Variation 2	Variation 2
1842	User Data_13.BYTE_1	None	SelectOperate	Variation 2	Variation 2
1843	User Data_13.BYTE_2	None	SelectOperate	Variation 2	Variation 2
1844	User Data_13.BYTE_3	None	SelectOperate	Variation 2	Variation 2
1845	User Data_13.BYTE_4	None	SelectOperate	Variation 2	Variation 2
1846	User Data_13.BYTE_5	None	SelectOperate	Variation 2	Variation 2
1847	User Data_13.BYTE_6	None	SelectOperate	Variation 2	Variation 2
1848	User Data_13.BYTE_7	None	SelectOperate	Variation 2	Variation 2
1849	User Data_13.BYTE_8	None	SelectOperate	Variation 2	Variation 2
1850	User Data_13.BYTE_9	None	SelectOperate	Variation 2	Variation 2
1851	User Data_13.BYTE_10	None	SelectOperate	Variation 2	Variation 2
1852	User Data_14.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
1853	User Data_14.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
1854	User Data_14.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
1855	User Data_14.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
1856	User Data_14.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
1857	User Data_14.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
1858	User Data_14.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
1859	User Data_14.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
1860	User Data_14.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
1861	User Data_14.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
1862	User Data_14.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
1863	User Data_14.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
1864	User Data_14.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
1865	User Data_14.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
1866	User Data_14.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
1867	User Data_14.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
1868	User Data_14.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
1869	User Data_14.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
1870	User Data_14.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
1871	User Data_14.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
1872	User Data_14.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4

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1873	User Data_14.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
1874	User Data_14.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
1875	User Data_14.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
1876	User Data_14.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
1877	User Data_14.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
1878	User Data_14.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
1879	User Data_14.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
1880	User Data_14.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
1881	User Data_14.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
1882	User Data_14.LONG_1	None	SelectOperate	Variation 1	Variation 1
1883	User Data_14.LONG_2	None	SelectOperate	Variation 1	Variation 1
1884	User Data_14.LONG_3	None	SelectOperate	Variation 1	Variation 1
1885	User Data_14.LONG_4	None	SelectOperate	Variation 1	Variation 1
1886	User Data_14.LONG_5	None	SelectOperate	Variation 1	Variation 1
1887	User Data_14.LONG_6	None	SelectOperate	Variation 1	Variation 1
1888	User Data_14.LONG_7	None	SelectOperate	Variation 1	Variation 1
1889	User Data_14.LONG_8	None	SelectOperate	Variation 1	Variation 1
1890	User Data_14.LONG_9	None	SelectOperate	Variation 1	Variation 1
1891	User Data_14.LONG_10	None	SelectOperate	Variation 1	Variation 1
1892	User Data_14.SHORT_1	None	SelectOperate	Variation 2	Variation 2
1893	User Data_14.SHORT_2	None	SelectOperate	Variation 2	Variation 2
1894	User Data_14.SHORT_3	None	SelectOperate	Variation 2	Variation 2
1895	User Data_14.SHORT_4	None	SelectOperate	Variation 2	Variation 2
1896	User Data_14.SHORT_5	None	SelectOperate	Variation 2	Variation 2
1897	User Data_14.SHORT_6	None	SelectOperate	Variation 2	Variation 2
1898	User Data_14.SHORT_7	None	SelectOperate	Variation 2	Variation 2
1899	User Data_14.SHORT_8	None	SelectOperate	Variation 2	Variation 2
1900	User Data_14.SHORT_9	None	SelectOperate	Variation 2	Variation 2
1901	User Data_14.SHORT_10	None	SelectOperate	Variation 2	Variation 2
1902	User Data_14.BYTE_1	None	SelectOperate	Variation 2	Variation 2
1903	User Data_14.BYTE_2	None	SelectOperate	Variation 2	Variation 2
1904	User Data_14.BYTE_3	None	SelectOperate	Variation 2	Variation 2

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1905	User Data_14.BYTE_4	None	SelectOperate	Variation 2	Variation 2
1906	User Data_14.BYTE_5	None	SelectOperate	Variation 2	Variation 2
1907	User Data_14.BYTE_6	None	SelectOperate	Variation 2	Variation 2
1908	User Data_14.BYTE_7	None	SelectOperate	Variation 2	Variation 2
1909	User Data_14.BYTE_8	None	SelectOperate	Variation 2	Variation 2
1910	User Data_14.BYTE_9	None	SelectOperate	Variation 2	Variation 2
1911	User Data_14.BYTE_10	None	SelectOperate	Variation 2	Variation 2
1912	User Data_15.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
1913	User Data_15.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
1914	User Data_15.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
1915	User Data_15.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
1916	User Data_15.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
1917	User Data_15.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
1918	User Data_15.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
1919	User Data_15.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
1920	User Data_15.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
1921	User Data_15.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
1922	User Data_15.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
1923	User Data_15.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
1924	User Data_15.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
1925	User Data_15.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
1926	User Data_15.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
1927	User Data_15.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
1928	User Data_15.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
1929	User Data_15.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
1930	User Data_15.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
1931	User Data_15.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
1932	User Data_15.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
1933	User Data_15.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
1934	User Data_15.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
1935	User Data_15.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
1936	User Data_15.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4

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1937	User Data_15.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
1938	User Data_15.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
1939	User Data_15.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
1940	User Data_15.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
1941	User Data_15.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
1942	User Data_15.LONG_1	None	SelectOperate	Variation 1	Variation 1
1943	User Data_15.LONG_2	None	SelectOperate	Variation 1	Variation 1
1944	User Data_15.LONG_3	None	SelectOperate	Variation 1	Variation 1
1945	User Data_15.LONG_4	None	SelectOperate	Variation 1	Variation 1
1946	User Data_15.LONG_5	None	SelectOperate	Variation 1	Variation 1
1947	User Data_15.LONG_6	None	SelectOperate	Variation 1	Variation 1
1948	User Data_15.LONG_7	None	SelectOperate	Variation 1	Variation 1
1949	User Data_15.LONG_8	None	SelectOperate	Variation 1	Variation 1
1950	User Data_15.LONG_9	None	SelectOperate	Variation 1	Variation 1
1951	User Data_15.LONG_10	None	SelectOperate	Variation 1	Variation 1
1952	User Data_15.SHORT_1	None	SelectOperate	Variation 2	Variation 2
1953	User Data_15.SHORT_2	None	SelectOperate	Variation 2	Variation 2
1954	User Data_15.SHORT_3	None	SelectOperate	Variation 2	Variation 2
1955	User Data_15.SHORT_4	None	SelectOperate	Variation 2	Variation 2
1956	User Data_15.SHORT_5	None	SelectOperate	Variation 2	Variation 2
1957	User Data_15.SHORT_6	None	SelectOperate	Variation 2	Variation 2
1958	User Data_15.SHORT_7	None	SelectOperate	Variation 2	Variation 2
1959	User Data_15.SHORT_8	None	SelectOperate	Variation 2	Variation 2
1960	User Data_15.SHORT_9	None	SelectOperate	Variation 2	Variation 2
1961	User Data_15.SHORT_10	None	SelectOperate	Variation 2	Variation 2
1962	User Data_15.BYTE_1	None	SelectOperate	Variation 2	Variation 2
1963	User Data_15.BYTE_2	None	SelectOperate	Variation 2	Variation 2
1964	User Data_15.BYTE_3	None	SelectOperate	Variation 2	Variation 2
1965	User Data_15.BYTE_4	None	SelectOperate	Variation 2	Variation 2
1966	User Data_15.BYTE_5	None	SelectOperate	Variation 2	Variation 2
1967	User Data_15.BYTE_6	None	SelectOperate	Variation 2	Variation 2
1968	User Data_15.BYTE_7	None	SelectOperate	Variation 2	Variation 2

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
1969	User Data_15.BYTE_8	None	SelectOperate	Variation 2	Variation 2
1970	User Data_15.BYTE_9	None	SelectOperate	Variation 2	Variation 2
1971	User Data_15.BYTE_10	None	SelectOperate	Variation 2	Variation 2
1972	User Data_16.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
1973	User Data_16.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
1974	User Data_16.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
1975	User Data_16.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
1976	User Data_16.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
1977	User Data_16.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
1978	User Data_16.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
1979	User Data_16.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
1980	User Data_16.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
1981	User Data_16.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
1982	User Data_16.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
1983	User Data_16.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
1984	User Data_16.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
1985	User Data_16.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
1986	User Data_16.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
1987	User Data_16.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
1988	User Data_16.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
1989	User Data_16.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
1990	User Data_16.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
1991	User Data_16.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
1992	User Data_16.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
1993	User Data_16.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
1994	User Data_16.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
1995	User Data_16.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
1996	User Data_16.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
1997	User Data_16.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
1998	User Data_16.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
1999	User Data_16.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
2000	User Data_16.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4

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Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2001	User Data_16.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
2002	User Data_16.LONG_1	None	SelectOperate	Variation 1	Variation 1
2003	User Data_16.LONG_2	None	SelectOperate	Variation 1	Variation 1
2004	User Data_16.LONG_3	None	SelectOperate	Variation 1	Variation 1
2005	User Data_16.LONG_4	None	SelectOperate	Variation 1	Variation 1
2006	User Data_16.LONG_5	None	SelectOperate	Variation 1	Variation 1
2007	User Data_16.LONG_6	None	SelectOperate	Variation 1	Variation 1
2008	User Data_16.LONG_7	None	SelectOperate	Variation 1	Variation 1
2009	User Data_16.LONG_8	None	SelectOperate	Variation 1	Variation 1
2010	User Data_16.LONG_9	None	SelectOperate	Variation 1	Variation 1
2011	User Data_16.LONG_10	None	SelectOperate	Variation 1	Variation 1
2012	User Data_16.SHORT_1	None	SelectOperate	Variation 2	Variation 2
2013	User Data_16.SHORT_2	None	SelectOperate	Variation 2	Variation 2
2014	User Data_16.SHORT_3	None	SelectOperate	Variation 2	Variation 2
2015	User Data_16.SHORT_4	None	SelectOperate	Variation 2	Variation 2
2016	User Data_16.SHORT_5	None	SelectOperate	Variation 2	Variation 2
2017	User Data_16.SHORT_6	None	SelectOperate	Variation 2	Variation 2
2018	User Data_16.SHORT_7	None	SelectOperate	Variation 2	Variation 2
2019	User Data_16.SHORT_8	None	SelectOperate	Variation 2	Variation 2
2020	User Data_16.SHORT_9	None	SelectOperate	Variation 2	Variation 2
2021	User Data_16.SHORT_10	None	SelectOperate	Variation 2	Variation 2
2022	User Data_16.BYTE_1	None	SelectOperate	Variation 2	Variation 2
2023	User Data_16.BYTE_2	None	SelectOperate	Variation 2	Variation 2
2024	User Data_16.BYTE_3	None	SelectOperate	Variation 2	Variation 2
2025	User Data_16.BYTE_4	None	SelectOperate	Variation 2	Variation 2
2026	User Data_16.BYTE_5	None	SelectOperate	Variation 2	Variation 2
2027	User Data_16.BYTE_6	None	SelectOperate	Variation 2	Variation 2
2028	User Data_16.BYTE_7	None	SelectOperate	Variation 2	Variation 2
2029	User Data_16.BYTE_8	None	SelectOperate	Variation 2	Variation 2
2030	User Data_16.BYTE_9	None	SelectOperate	Variation 2	Variation 2
2031	User Data_16.BYTE_10	None	SelectOperate	Variation 2	Variation 2
2032	User Data_17.FLOAT_1	None	SelectOperate	Variation 3	Variation 3

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2033	User Data_17.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
2034	User Data_17.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
2035	User Data_17.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
2036	User Data_17.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
2037	User Data_17.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
2038	User Data_17.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
2039	User Data_17.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
2040	User Data_17.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
2041	User Data_17.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
2042	User Data_17.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
2043	User Data_17.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
2044	User Data_17.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
2045	User Data_17.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
2046	User Data_17.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
2047	User Data_17.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
2048	User Data_17.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
2049	User Data_17.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
2050	User Data_17.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
2051	User Data_17.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
2052	User Data_17.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
2053	User Data_17.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
2054	User Data_17.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
2055	User Data_17.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
2056	User Data_17.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
2057	User Data_17.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
2058	User Data_17.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
2059	User Data_17.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
2060	User Data_17.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
2061	User Data_17.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
2062	User Data_17.LONG_1	None	SelectOperate	Variation 1	Variation 1
2063	User Data_17.LONG_2	None	SelectOperate	Variation 1	Variation 1
2064	User Data_17.LONG_3	None	SelectOperate	Variation 1	Variation 1

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Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2065	User Data_17.LONG_4	None	SelectOperate	Variation 1	Variation 1
2066	User Data_17.LONG_5	None	SelectOperate	Variation 1	Variation 1
2067	User Data_17.LONG_6	None	SelectOperate	Variation 1	Variation 1
2068	User Data_17.LONG_7	None	SelectOperate	Variation 1	Variation 1
2069	User Data_17.LONG_8	None	SelectOperate	Variation 1	Variation 1
2070	User Data_17.LONG_9	None	SelectOperate	Variation 1	Variation 1
2071	User Data_17.LONG_10	None	SelectOperate	Variation 1	Variation 1
2072	User Data_17.SHORT_1	None	SelectOperate	Variation 2	Variation 2
2073	User Data_17.SHORT_2	None	SelectOperate	Variation 2	Variation 2
2074	User Data_17.SHORT_3	None	SelectOperate	Variation 2	Variation 2
2075	User Data_17.SHORT_4	None	SelectOperate	Variation 2	Variation 2
2076	User Data_17.SHORT_5	None	SelectOperate	Variation 2	Variation 2
2077	User Data_17.SHORT_6	None	SelectOperate	Variation 2	Variation 2
2078	User Data_17.SHORT_7	None	SelectOperate	Variation 2	Variation 2
2079	User Data_17.SHORT_8	None	SelectOperate	Variation 2	Variation 2
2080	User Data_17.SHORT_9	None	SelectOperate	Variation 2	Variation 2
2081	User Data_17.SHORT_10	None	SelectOperate	Variation 2	Variation 2
2082	User Data_17.BYTE_1	None	SelectOperate	Variation 2	Variation 2
2083	User Data_17.BYTE_2	None	SelectOperate	Variation 2	Variation 2
2084	User Data_17.BYTE_3	None	SelectOperate	Variation 2	Variation 2
2085	User Data_17.BYTE_4	None	SelectOperate	Variation 2	Variation 2
2086	User Data_17.BYTE_5	None	SelectOperate	Variation 2	Variation 2
2087	User Data_17.BYTE_6	None	SelectOperate	Variation 2	Variation 2
2088	User Data_17.BYTE_7	None	SelectOperate	Variation 2	Variation 2
2089	User Data_17.BYTE_8	None	SelectOperate	Variation 2	Variation 2
2090	User Data_17.BYTE_9	None	SelectOperate	Variation 2	Variation 2
2091	User Data_17.BYTE_10	None	SelectOperate	Variation 2	Variation 2
2092	User Data_18.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
2093	User Data_18.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
2094	User Data_18.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
2095	User Data_18.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
2096	User Data_18.FLOAT_5	None	SelectOperate	Variation 3	Variation 3



Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2097	User Data_18.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
2098	User Data_18.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
2099	User Data_18.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
2100	User Data_18.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
2101	User Data_18.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
2102	User Data_18.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
2103	User Data_18.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
2104	User Data_18.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
2105	User Data_18.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
2106	User Data_18.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
2107	User Data_18.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
2108	User Data_18.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
2109	User Data_18.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
2110	User Data_18.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
2111	User Data_18.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
2112	User Data_18.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
2113	User Data_18.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
2114	User Data_18.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
2115	User Data_18.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
2116	User Data_18.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
2117	User Data_18.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
2118	User Data_18.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
2119	User Data_18.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
2120	User Data_18.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
2121	User Data_18.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
2122	User Data_18.LONG_1	None	SelectOperate	Variation 1	Variation 1
2123	User Data_18.LONG_2	None	SelectOperate	Variation 1	Variation 1
2124	User Data_18.LONG_3	None	SelectOperate	Variation 1	Variation 1
2125	User Data_18.LONG_4	None	SelectOperate	Variation 1	Variation 1
2126	User Data_18.LONG_5	None	SelectOperate	Variation 1	Variation 1
2127	User Data_18.LONG_6	None	SelectOperate	Variation 1	Variation 1
2128	User Data_18.LONG_7	None	SelectOperate	Variation 1	Variation 1

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Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2129	User Data_18.LONG_8	None	SelectOperate	Variation 1	Variation 1
2130	User Data_18.LONG_9	None	SelectOperate	Variation 1	Variation 1
2131	User Data_18.LONG_10	None	SelectOperate	Variation 1	Variation 1
2132	User Data_18.SHORT_1	None	SelectOperate	Variation 2	Variation 2
2133	User Data_18.SHORT_2	None	SelectOperate	Variation 2	Variation 2
2134	User Data_18.SHORT_3	None	SelectOperate	Variation 2	Variation 2
2135	User Data_18.SHORT_4	None	SelectOperate	Variation 2	Variation 2
2136	User Data_18.SHORT_5	None	SelectOperate	Variation 2	Variation 2
2137	User Data_18.SHORT_6	None	SelectOperate	Variation 2	Variation 2
2138	User Data_18.SHORT_7	None	SelectOperate	Variation 2	Variation 2
2139	User Data_18.SHORT_8	None	SelectOperate	Variation 2	Variation 2
2140	User Data_18.SHORT_9	None	SelectOperate	Variation 2	Variation 2
2141	User Data_18.SHORT_10	None	SelectOperate	Variation 2	Variation 2
2142	User Data_18.BYTE_1	None	SelectOperate	Variation 2	Variation 2
2143	User Data_18.BYTE_2	None	SelectOperate	Variation 2	Variation 2
2144	User Data_18.BYTE_3	None	SelectOperate	Variation 2	Variation 2
2145	User Data_18.BYTE_4	None	SelectOperate	Variation 2	Variation 2
2146	User Data_18.BYTE_5	None	SelectOperate	Variation 2	Variation 2
2147	User Data_18.BYTE_6	None	SelectOperate	Variation 2	Variation 2
2148	User Data_18.BYTE_7	None	SelectOperate	Variation 2	Variation 2
2149	User Data_18.BYTE_8	None	SelectOperate	Variation 2	Variation 2
2150	User Data_18.BYTE_9	None	SelectOperate	Variation 2	Variation 2
2151	User Data_18.BYTE_10	None	SelectOperate	Variation 2	Variation 2
2152	User Data_19.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
2153	User Data_19.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
2154	User Data_19.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
2155	User Data_19.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
2156	User Data_19.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
2157	User Data_19.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
2158	User Data_19.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
2159	User Data_19.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
2160	User Data_19.FLOAT_9	None	SelectOperate	Variation 3	Variation 3

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2161	User Data_19.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
2162	User Data_19.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
2163	User Data_19.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
2164	User Data_19.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
2165	User Data_19.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
2166	User Data_19.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
2167	User Data_19.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
2168	User Data_19.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
2169	User Data_19.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
2170	User Data_19.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
2171	User Data_19.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
2172	User Data_19.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
2173	User Data_19.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
2174	User Data_19.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
2175	User Data_19.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
2176	User Data_19.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
2177	User Data_19.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
2178	User Data_19.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
2179	User Data_19.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
2180	User Data_19.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
2181	User Data_19.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
2182	User Data_19.LONG_1	None	SelectOperate	Variation 1	Variation 1
2183	User Data_19.LONG_2	None	SelectOperate	Variation 1	Variation 1
2184	User Data_19.LONG_3	None	SelectOperate	Variation 1	Variation 1
2185	User Data_19.LONG_4	None	SelectOperate	Variation 1	Variation 1
2186	User Data_19.LONG_5	None	SelectOperate	Variation 1	Variation 1
2187	User Data_19.LONG_6	None	SelectOperate	Variation 1	Variation 1
2188	User Data_19.LONG_7	None	SelectOperate	Variation 1	Variation 1
2189	User Data_19.LONG_8	None	SelectOperate	Variation 1	Variation 1
2190	User Data_19.LONG_9	None	SelectOperate	Variation 1	Variation 1
2191	User Data_19.LONG_10	None	SelectOperate	Variation 1	Variation 1
2192	User Data_19.SHORT_1	None	SelectOperate	Variation 2	Variation 2

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2193	User Data_19.SHORT_2	None	SelectOperate	Variation 2	Variation 2
2194	User Data_19.SHORT_3	None	SelectOperate	Variation 2	Variation 2
2195	User Data_19.SHORT_4	None	SelectOperate	Variation 2	Variation 2
2196	User Data_19.SHORT_5	None	SelectOperate	Variation 2	Variation 2
2197	User Data_19.SHORT_6	None	SelectOperate	Variation 2	Variation 2
2198	User Data_19.SHORT_7	None	SelectOperate	Variation 2	Variation 2
2199	User Data_19.SHORT_8	None	SelectOperate	Variation 2	Variation 2
2200	User Data_19.SHORT_9	None	SelectOperate	Variation 2	Variation 2
2201	User Data_19.SHORT_10	None	SelectOperate	Variation 2	Variation 2
2202	User Data_19.BYTE_1	None	SelectOperate	Variation 2	Variation 2
2203	User Data_19.BYTE_2	None	SelectOperate	Variation 2	Variation 2
2204	User Data_19.BYTE_3	None	SelectOperate	Variation 2	Variation 2
2205	User Data_19.BYTE_4	None	SelectOperate	Variation 2	Variation 2
2206	User Data_19.BYTE_5	None	SelectOperate	Variation 2	Variation 2
2207	User Data_19.BYTE_6	None	SelectOperate	Variation 2	Variation 2
2208	User Data_19.BYTE_7	None	SelectOperate	Variation 2	Variation 2
2209	User Data_19.BYTE_8	None	SelectOperate	Variation 2	Variation 2
2210	User Data_19.BYTE_9	None	SelectOperate	Variation 2	Variation 2
2211	User Data_19.BYTE_10	None	SelectOperate	Variation 2	Variation 2
2212	User Data_20.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
2213	User Data_20.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
2214	User Data_20.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
2215	User Data_20.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
2216	User Data_20.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
2217	User Data_20.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
2218	User Data_20.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
2219	User Data_20.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
2220	User Data_20.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
2221	User Data_20.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
2222	User Data_20.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
2223	User Data_20.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
2224	User Data_20.FLOAT_13	None	SelectOperate	Variation 3	Variation 3

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2225	User Data_20.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
2226	User Data_20.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
2227	User Data_20.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
2228	User Data_20.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
2229	User Data_20.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
2230	User Data_20.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
2231	User Data_20.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
2232	User Data_20.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
2233	User Data_20.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
2234	User Data_20.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
2235	User Data_20.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
2236	User Data_20.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
2237	User Data_20.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
2238	User Data_20.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
2239	User Data_20.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
2240	User Data_20.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
2241	User Data_20.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
2242	User Data_20.LONG_1	None	SelectOperate	Variation 1	Variation 1
2243	User Data_20.LONG_2	None	SelectOperate	Variation 1	Variation 1
2244	User Data_20.LONG_3	None	SelectOperate	Variation 1	Variation 1
2245	User Data_20.LONG_4	None	SelectOperate	Variation 1	Variation 1
2246	User Data_20.LONG_5	None	SelectOperate	Variation 1	Variation 1
2247	User Data_20.LONG_6	None	SelectOperate	Variation 1	Variation 1
2248	User Data_20.LONG_7	None	SelectOperate	Variation 1	Variation 1
2249	User Data_20.LONG_8	None	SelectOperate	Variation 1	Variation 1
2250	User Data_20.LONG_9	None	SelectOperate	Variation 1	Variation 1
2251	User Data_20.LONG_10	None	SelectOperate	Variation 1	Variation 1
2252	User Data_20.SHORT_1	None	SelectOperate	Variation 2	Variation 2
2253	User Data_20.SHORT_2	None	SelectOperate	Variation 2	Variation 2
2254	User Data_20.SHORT_3	None	SelectOperate	Variation 2	Variation 2
2255	User Data_20.SHORT_4	None	SelectOperate	Variation 2	Variation 2
2256	User Data_20.SHORT_5	None	SelectOperate	Variation 2	Variation 2

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2257	User Data_20.SHORT_6	None	SelectOperate	Variation 2	Variation 2
2258	User Data_20.SHORT_7	None	SelectOperate	Variation 2	Variation 2
2259	User Data_20.SHORT_8	None	SelectOperate	Variation 2	Variation 2
2260	User Data_20.SHORT_9	None	SelectOperate	Variation 2	Variation 2
2261	User Data_20.SHORT_10	None	SelectOperate	Variation 2	Variation 2
2262	User Data_20.BYTE_1	None	SelectOperate	Variation 2	Variation 2
2263	User Data_20.BYTE_2	None	SelectOperate	Variation 2	Variation 2
2264	User Data_20.BYTE_3	None	SelectOperate	Variation 2	Variation 2
2265	User Data_20.BYTE_4	None	SelectOperate	Variation 2	Variation 2
2266	User Data_20.BYTE_5	None	SelectOperate	Variation 2	Variation 2
2267	User Data_20.BYTE_6	None	SelectOperate	Variation 2	Variation 2
2268	User Data_20.BYTE_7	None	SelectOperate	Variation 2	Variation 2
2269	User Data_20.BYTE_8	None	SelectOperate	Variation 2	Variation 2
2270	User Data_20.BYTE_9	None	SelectOperate	Variation 2	Variation 2
2271	User Data_20.BYTE_10	None	SelectOperate	Variation 2	Variation 2
2272	User Data_21.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
2273	User Data_21.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
2274	User Data_21.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
2275	User Data_21.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
2276	User Data_21.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
2277	User Data_21.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
2278	User Data_21.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
2279	User Data_21.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
2280	User Data_21.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
2281	User Data_21.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
2282	User Data_21.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
2283	User Data_21.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
2284	User Data_21.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
2285	User Data_21.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
2286	User Data_21.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
2287	User Data_21.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
2288	User Data_21.FLOAT_17	None	SelectOperate	Variation 3	Variation 3

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2289	User Data_21.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
2290	User Data_21.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
2291	User Data_21.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
2292	User Data_21.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
2293	User Data_21.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
2294	User Data_21.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
2295	User Data_21.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
2296	User Data_21.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
2297	User Data_21.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
2298	User Data_21.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
2299	User Data_21.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
2300	User Data_21.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
2301	User Data_21.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
2302	User Data_21.LONG_1	None	SelectOperate	Variation 1	Variation 1
2303	User Data_21.LONG_2	None	SelectOperate	Variation 1	Variation 1
2304	User Data_21.LONG_3	None	SelectOperate	Variation 1	Variation 1
2305	User Data_21.LONG_4	None	SelectOperate	Variation 1	Variation 1
2306	User Data_21.LONG_5	None	SelectOperate	Variation 1	Variation 1
2307	User Data_21.LONG_6	None	SelectOperate	Variation 1	Variation 1
2308	User Data_21.LONG_7	None	SelectOperate	Variation 1	Variation 1
2309	User Data_21.LONG_8	None	SelectOperate	Variation 1	Variation 1
2310	User Data_21.LONG_9	None	SelectOperate	Variation 1	Variation 1
2311	User Data_21.LONG_10	None	SelectOperate	Variation 1	Variation 1
2312	User Data_21.SHORT_1	None	SelectOperate	Variation 2	Variation 2
2313	User Data_21.SHORT_2	None	SelectOperate	Variation 2	Variation 2
2314	User Data_21.SHORT_3	None	SelectOperate	Variation 2	Variation 2
2315	User Data_21.SHORT_4	None	SelectOperate	Variation 2	Variation 2
2316	User Data_21.SHORT_5	None	SelectOperate	Variation 2	Variation 2
2317	User Data_21.SHORT_6	None	SelectOperate	Variation 2	Variation 2
2318	User Data_21.SHORT_7	None	SelectOperate	Variation 2	Variation 2
2319	User Data_21.SHORT_8	None	SelectOperate	Variation 2	Variation 2
2320	User Data_21.SHORT_9	None	SelectOperate	Variation 2	Variation 2

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2321	User Data_21.SHORT_10	None	SelectOperate	Variation 2	Variation 2
2322	User Data_21.BYTE_1	None	SelectOperate	Variation 2	Variation 2
2323	User Data_21.BYTE_2	None	SelectOperate	Variation 2	Variation 2
2324	User Data_21.BYTE_3	None	SelectOperate	Variation 2	Variation 2
2325	User Data_21.BYTE_4	None	SelectOperate	Variation 2	Variation 2
2326	User Data_21.BYTE_5	None	SelectOperate	Variation 2	Variation 2
2327	User Data_21.BYTE_6	None	SelectOperate	Variation 2	Variation 2
2328	User Data_21.BYTE_7	None	SelectOperate	Variation 2	Variation 2
2329	User Data_21.BYTE_8	None	SelectOperate	Variation 2	Variation 2
2330	User Data_21.BYTE_9	None	SelectOperate	Variation 2	Variation 2
2331	User Data_21.BYTE_10	None	SelectOperate	Variation 2	Variation 2
2332	User Data_22.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
2333	User Data_22.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
2334	User Data_22.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
2335	User Data_22.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
2336	User Data_22.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
2337	User Data_22.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
2338	User Data_22.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
2339	User Data_22.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
2340	User Data_22.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
2341	User Data_22.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
2342	User Data_22.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
2343	User Data_22.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
2344	User Data_22.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
2345	User Data_22.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
2346	User Data_22.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
2347	User Data_22.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
2348	User Data_22.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
2349	User Data_22.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
2350	User Data_22.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
2351	User Data_22.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
2352	User Data_22.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4



Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2353	User Data_22.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
2354	User Data_22.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
2355	User Data_22.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
2356	User Data_22.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
2357	User Data_22.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
2358	User Data_22.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
2359	User Data_22.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
2360	User Data_22.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
2361	User Data_22.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
2362	User Data_22.LONG_1	None	SelectOperate	Variation 1	Variation 1
2363	User Data_22.LONG_2	None	SelectOperate	Variation 1	Variation 1
2364	User Data_22.LONG_3	None	SelectOperate	Variation 1	Variation 1
2365	User Data_22.LONG_4	None	SelectOperate	Variation 1	Variation 1
2366	User Data_22.LONG_5	None	SelectOperate	Variation 1	Variation 1
2367	User Data_22.LONG_6	None	SelectOperate	Variation 1	Variation 1
2368	User Data_22.LONG_7	None	SelectOperate	Variation 1	Variation 1
2369	User Data_22.LONG_8	None	SelectOperate	Variation 1	Variation 1
2370	User Data_22.LONG_9	None	SelectOperate	Variation 1	Variation 1
2371	User Data_22.LONG_10	None	SelectOperate	Variation 1	Variation 1
2372	User Data_22.SHORT_1	None	SelectOperate	Variation 2	Variation 2
2373	User Data_22.SHORT_2	None	SelectOperate	Variation 2	Variation 2
2374	User Data_22.SHORT_3	None	SelectOperate	Variation 2	Variation 2
2375	User Data_22.SHORT_4	None	SelectOperate	Variation 2	Variation 2
2376	User Data_22.SHORT_5	None	SelectOperate	Variation 2	Variation 2
2377	User Data_22.SHORT_6	None	SelectOperate	Variation 2	Variation 2
2378	User Data_22.SHORT_7	None	SelectOperate	Variation 2	Variation 2
2379	User Data_22.SHORT_8	None	SelectOperate	Variation 2	Variation 2
2380	User Data_22.SHORT_9	None	SelectOperate	Variation 2	Variation 2
2381	User Data_22.SHORT_10	None	SelectOperate	Variation 2	Variation 2
2382	User Data_22.BYTE_1	None	SelectOperate	Variation 2	Variation 2
2383	User Data_22.BYTE_2	None	SelectOperate	Variation 2	Variation 2
2384	User Data_22.BYTE_3	None	SelectOperate	Variation 2	Variation 2

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Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2385	User Data_22.BYTE_4	None	SelectOperate	Variation 2	Variation 2
2386	User Data_22.BYTE_5	None	SelectOperate	Variation 2	Variation 2
2387	User Data_22.BYTE_6	None	SelectOperate	Variation 2	Variation 2
2388	User Data_22.BYTE_7	None	SelectOperate	Variation 2	Variation 2
2389	User Data_22.BYTE_8	None	SelectOperate	Variation 2	Variation 2
2390	User Data_22.BYTE_9	None	SelectOperate	Variation 2	Variation 2
2391	User Data_22.BYTE_10	None	SelectOperate	Variation 2	Variation 2
2392	User Data_23.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
2393	User Data_23.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
2394	User Data_23.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
2395	User Data_23.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
2396	User Data_23.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
2397	User Data_23.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
2398	User Data_23.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
2399	User Data_23.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
2400	User Data_23.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
2401	User Data_23.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
2402	User Data_23.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
2403	User Data_23.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
2404	User Data_23.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
2405	User Data_23.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
2406	User Data_23.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
2407	User Data_23.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
2408	User Data_23.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
2409	User Data_23.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
2410	User Data_23.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
2411	User Data_23.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
2412	User Data_23.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
2413	User Data_23.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
2414	User Data_23.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
2415	User Data_23.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
2416	User Data_23.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2417	User Data_23.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
2418	User Data_23.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
2419	User Data_23.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
2420	User Data_23.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
2421	User Data_23.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
2422	User Data_23.LONG_1	None	SelectOperate	Variation 1	Variation 1
2423	User Data_23.LONG_2	None	SelectOperate	Variation 1	Variation 1
2424	User Data_23.LONG_3	None	SelectOperate	Variation 1	Variation 1
2425	User Data_23.LONG_4	None	SelectOperate	Variation 1	Variation 1
2426	User Data_23.LONG_5	None	SelectOperate	Variation 1	Variation 1
2427	User Data_23.LONG_6	None	SelectOperate	Variation 1	Variation 1
2428	User Data_23.LONG_7	None	SelectOperate	Variation 1	Variation 1
2429	User Data_23.LONG_8	None	SelectOperate	Variation 1	Variation 1
2430	User Data_23.LONG_9	None	SelectOperate	Variation 1	Variation 1
2431	User Data_23.LONG_10	None	SelectOperate	Variation 1	Variation 1
2432	User Data_23.SHORT_1	None	SelectOperate	Variation 2	Variation 2
2433	User Data_23.SHORT_2	None	SelectOperate	Variation 2	Variation 2
2434	User Data_23.SHORT_3	None	SelectOperate	Variation 2	Variation 2
2435	User Data_23.SHORT_4	None	SelectOperate	Variation 2	Variation 2
2436	User Data_23.SHORT_5	None	SelectOperate	Variation 2	Variation 2
2437	User Data_23.SHORT_6	None	SelectOperate	Variation 2	Variation 2
2438	User Data_23.SHORT_7	None	SelectOperate	Variation 2	Variation 2
2439	User Data_23.SHORT_8	None	SelectOperate	Variation 2	Variation 2
2440	User Data_23.SHORT_9	None	SelectOperate	Variation 2	Variation 2
2441	User Data_23.SHORT_10	None	SelectOperate	Variation 2	Variation 2
2442	User Data_23.BYTE_1	None	SelectOperate	Variation 2	Variation 2
2443	User Data_23.BYTE_2	None	SelectOperate	Variation 2	Variation 2
2444	User Data_23.BYTE_3	None	SelectOperate	Variation 2	Variation 2
2445	User Data_23.BYTE_4	None	SelectOperate	Variation 2	Variation 2
2446	User Data_23.BYTE_5	None	SelectOperate	Variation 2	Variation 2
2447	User Data_23.BYTE_6	None	SelectOperate	Variation 2	Variation 2
2448	User Data_23.BYTE_7	None	SelectOperate	Variation 2	Variation 2

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2449	User Data_23.BYTE_8	None	SelectOperate	Variation 2	Variation 2
2450	User Data_23.BYTE_9	None	SelectOperate	Variation 2	Variation 2
2451	User Data_23.BYTE_10	None	SelectOperate	Variation 2	Variation 2
2452	User Data_24.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
2453	User Data_24.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
2454	User Data_24.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
2455	User Data_24.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
2456	User Data_24.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
2457	User Data_24.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
2458	User Data_24.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
2459	User Data_24.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
2460	User Data_24.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
2461	User Data_24.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
2462	User Data_24.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
2463	User Data_24.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
2464	User Data_24.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
2465	User Data_24.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
2466	User Data_24.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
2467	User Data_24.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
2468	User Data_24.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
2469	User Data_24.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
2470	User Data_24.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
2471	User Data_24.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
2472	User Data_24.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
2473	User Data_24.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
2474	User Data_24.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
2475	User Data_24.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
2476	User Data_24.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
2477	User Data_24.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
2478	User Data_24.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
2479	User Data_24.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
2480	User Data_24.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2481	User Data_24.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
2482	User Data_24.LONG_1	None	SelectOperate	Variation 1	Variation 1
2483	User Data_24.LONG_2	None	SelectOperate	Variation 1	Variation 1
2484	User Data_24.LONG_3	None	SelectOperate	Variation 1	Variation 1
2485	User Data_24.LONG_4	None	SelectOperate	Variation 1	Variation 1
2486	User Data_24.LONG_5	None	SelectOperate	Variation 1	Variation 1
2487	User Data_24.LONG_6	None	SelectOperate	Variation 1	Variation 1
2488	User Data_24.LONG_7	None	SelectOperate	Variation 1	Variation 1
2489	User Data_24.LONG_8	None	SelectOperate	Variation 1	Variation 1
2490	User Data_24.LONG_9	None	SelectOperate	Variation 1	Variation 1
2491	User Data_24.LONG_10	None	SelectOperate	Variation 1	Variation 1
2492	User Data_24.SHORT_1	None	SelectOperate	Variation 2	Variation 2
2493	User Data_24.SHORT_2	None	SelectOperate	Variation 2	Variation 2
2494	User Data_24.SHORT_3	None	SelectOperate	Variation 2	Variation 2
2495	User Data_24.SHORT_4	None	SelectOperate	Variation 2	Variation 2
2496	User Data_24.SHORT_5	None	SelectOperate	Variation 2	Variation 2
2497	User Data_24.SHORT_6	None	SelectOperate	Variation 2	Variation 2
2498	User Data_24.SHORT_7	None	SelectOperate	Variation 2	Variation 2
2499	User Data_24.SHORT_8	None	SelectOperate	Variation 2	Variation 2
2500	User Data_24.SHORT_9	None	SelectOperate	Variation 2	Variation 2
2501	User Data_24.SHORT_10	None	SelectOperate	Variation 2	Variation 2
2502	User Data_24.BYTE_1	None	SelectOperate	Variation 2	Variation 2
2503	User Data_24.BYTE_2	None	SelectOperate	Variation 2	Variation 2
2504	User Data_24.BYTE_3	None	SelectOperate	Variation 2	Variation 2
2505	User Data_24.BYTE_4	None	SelectOperate	Variation 2	Variation 2
2506	User Data_24.BYTE_5	None	SelectOperate	Variation 2	Variation 2
2507	User Data_24.BYTE_6	None	SelectOperate	Variation 2	Variation 2
2508	User Data_24.BYTE_7	None	SelectOperate	Variation 2	Variation 2
2509	User Data_24.BYTE_8	None	SelectOperate	Variation 2	Variation 2
2510	User Data_24.BYTE_9	None	SelectOperate	Variation 2	Variation 2
2511	User Data_24.BYTE_10	None	SelectOperate	Variation 2	Variation 2
2512	User Data_25.FLOAT_1	None	SelectOperate	Variation 3	Variation 3

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2513	User Data_25.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
2514	User Data_25.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
2515	User Data_25.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
2516	User Data_25.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
2517	User Data_25.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
2518	User Data_25.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
2519	User Data_25.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
2520	User Data_25.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
2521	User Data_25.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
2522	User Data_25.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
2523	User Data_25.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
2524	User Data_25.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
2525	User Data_25.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
2526	User Data_25.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
2527	User Data_25.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
2528	User Data_25.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
2529	User Data_25.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
2530	User Data_25.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
2531	User Data_25.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
2532	User Data_25.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
2533	User Data_25.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
2534	User Data_25.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
2535	User Data_25.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
2536	User Data_25.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
2537	User Data_25.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
2538	User Data_25.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
2539	User Data_25.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
2540	User Data_25.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
2541	User Data_25.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
2542	User Data_25.LONG_1	None	SelectOperate	Variation 1	Variation 1
2543	User Data_25.LONG_2	None	SelectOperate	Variation 1	Variation 1
2544	User Data_25.LONG_3	None	SelectOperate	Variation 1	Variation 1

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2545	User Data_25.LONG_4	None	SelectOperate	Variation 1	Variation 1
2546	User Data_25.LONG_5	None	SelectOperate	Variation 1	Variation 1
2547	User Data_25.LONG_6	None	SelectOperate	Variation 1	Variation 1
2548	User Data_25.LONG_7	None	SelectOperate	Variation 1	Variation 1
2549	User Data_25.LONG_8	None	SelectOperate	Variation 1	Variation 1
2550	User Data_25.LONG_9	None	SelectOperate	Variation 1	Variation 1
2551	User Data_25.LONG_10	None	SelectOperate	Variation 1	Variation 1
2552	User Data_25.SHORT_1	None	SelectOperate	Variation 2	Variation 2
2553	User Data_25.SHORT_2	None	SelectOperate	Variation 2	Variation 2
2554	User Data_25.SHORT_3	None	SelectOperate	Variation 2	Variation 2
2555	User Data_25.SHORT_4	None	SelectOperate	Variation 2	Variation 2
2556	User Data_25.SHORT_5	None	SelectOperate	Variation 2	Variation 2
2557	User Data_25.SHORT_6	None	SelectOperate	Variation 2	Variation 2
2558	User Data_25.SHORT_7	None	SelectOperate	Variation 2	Variation 2
2559	User Data_25.SHORT_8	None	SelectOperate	Variation 2	Variation 2
2560	User Data_25.SHORT_9	None	SelectOperate	Variation 2	Variation 2
2561	User Data_25.SHORT_10	None	SelectOperate	Variation 2	Variation 2
2562	User Data_25.BYTE_1	None	SelectOperate	Variation 2	Variation 2
2563	User Data_25.BYTE_2	None	SelectOperate	Variation 2	Variation 2
2564	User Data_25.BYTE_3	None	SelectOperate	Variation 2	Variation 2
2565	User Data_25.BYTE_4	None	SelectOperate	Variation 2	Variation 2
2566	User Data_25.BYTE_5	None	SelectOperate	Variation 2	Variation 2
2567	User Data_25.BYTE_6	None	SelectOperate	Variation 2	Variation 2
2568	User Data_25.BYTE_7	None	SelectOperate	Variation 2	Variation 2
2569	User Data_25.BYTE_8	None	SelectOperate	Variation 2	Variation 2
2570	User Data_25.BYTE_9	None	SelectOperate	Variation 2	Variation 2
2571	User Data_25.BYTE_10	None	SelectOperate	Variation 2	Variation 2
2572	User Data_26.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
2573	User Data_26.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
2574	User Data_26.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
2575	User Data_26.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
2576	User Data_26.FLOAT_5	None	SelectOperate	Variation 3	Variation 3

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2577	User Data_26.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
2578	User Data_26.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
2579	User Data_26.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
2580	User Data_26.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
2581	User Data_26.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
2582	User Data_26.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
2583	User Data_26.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
2584	User Data_26.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
2585	User Data_26.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
2586	User Data_26.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
2587	User Data_26.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
2588	User Data_26.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
2589	User Data_26.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
2590	User Data_26.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
2591	User Data_26.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
2592	User Data_26.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
2593	User Data_26.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
2594	User Data_26.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
2595	User Data_26.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
2596	User Data_26.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
2597	User Data_26.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
2598	User Data_26.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
2599	User Data_26.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
2600	User Data_26.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
2601	User Data_26.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
2602	User Data_26.LONG_1	None	SelectOperate	Variation 1	Variation 1
2603	User Data_26.LONG_2	None	SelectOperate	Variation 1	Variation 1
2604	User Data_26.LONG_3	None	SelectOperate	Variation 1	Variation 1
2605	User Data_26.LONG_4	None	SelectOperate	Variation 1	Variation 1
2606	User Data_26.LONG_5	None	SelectOperate	Variation 1	Variation 1
2607	User Data_26.LONG_6	None	SelectOperate	Variation 1	Variation 1
2608	User Data_26.LONG_7	None	SelectOperate	Variation 1	Variation 1



Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2609	User Data_26.LONG_8	None	SelectOperate	Variation 1	Variation 1
2610	User Data_26.LONG_9	None	SelectOperate	Variation 1	Variation 1
2611	User Data_26.LONG_10	None	SelectOperate	Variation 1	Variation 1
2612	User Data_26.SHORT_1	None	SelectOperate	Variation 2	Variation 2
2613	User Data_26.SHORT_2	None	SelectOperate	Variation 2	Variation 2
2614	User Data_26.SHORT_3	None	SelectOperate	Variation 2	Variation 2
2615	User Data_26.SHORT_4	None	SelectOperate	Variation 2	Variation 2
2616	User Data_26.SHORT_5	None	SelectOperate	Variation 2	Variation 2
2617	User Data_26.SHORT_6	None	SelectOperate	Variation 2	Variation 2
2618	User Data_26.SHORT_7	None	SelectOperate	Variation 2	Variation 2
2619	User Data_26.SHORT_8	None	SelectOperate	Variation 2	Variation 2
2620	User Data_26.SHORT_9	None	SelectOperate	Variation 2	Variation 2
2621	User Data_26.SHORT_10	None	SelectOperate	Variation 2	Variation 2
2622	User Data_26.BYTE_1	None	SelectOperate	Variation 2	Variation 2
2623	User Data_26.BYTE_2	None	SelectOperate	Variation 2	Variation 2
2624	User Data_26.BYTE_3	None	SelectOperate	Variation 2	Variation 2
2625	User Data_26.BYTE_4	None	SelectOperate	Variation 2	Variation 2
2626	User Data_26.BYTE_5	None	SelectOperate	Variation 2	Variation 2
2627	User Data_26.BYTE_6	None	SelectOperate	Variation 2	Variation 2
2628	User Data_26.BYTE_7	None	SelectOperate	Variation 2	Variation 2
2629	User Data_26.BYTE_8	None	SelectOperate	Variation 2	Variation 2
2630	User Data_26.BYTE_9	None	SelectOperate	Variation 2	Variation 2
2631	User Data_26.BYTE_10	None	SelectOperate	Variation 2	Variation 2
2632	User Data_27.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
2633	User Data_27.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
2634	User Data_27.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
2635	User Data_27.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
2636	User Data_27.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
2637	User Data_27.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
2638	User Data_27.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
2639	User Data_27.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
2640	User Data_27.FLOAT_9	None	SelectOperate	Variation 3	Variation 3

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Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2641	User Data_27.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
2642	User Data_27.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
2643	User Data_27.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
2644	User Data_27.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
2645	User Data_27.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
2646	User Data_27.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
2647	User Data_27.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
2648	User Data_27.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
2649	User Data_27.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
2650	User Data_27.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
2651	User Data_27.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
2652	User Data_27.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
2653	User Data_27.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
2654	User Data_27.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
2655	User Data_27.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
2656	User Data_27.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
2657	User Data_27.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
2658	User Data_27.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
2659	User Data_27.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
2660	User Data_27.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
2661	User Data_27.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
2662	User Data_27.LONG_1	None	SelectOperate	Variation 1	Variation 1
2663	User Data_27.LONG_2	None	SelectOperate	Variation 1	Variation 1
2664	User Data_27.LONG_3	None	SelectOperate	Variation 1	Variation 1
2665	User Data_27.LONG_4	None	SelectOperate	Variation 1	Variation 1
2666	User Data_27.LONG_5	None	SelectOperate	Variation 1	Variation 1
2667	User Data_27.LONG_6	None	SelectOperate	Variation 1	Variation 1
2668	User Data_27.LONG_7	None	SelectOperate	Variation 1	Variation 1
2669	User Data_27.LONG_8	None	SelectOperate	Variation 1	Variation 1
2670	User Data_27.LONG_9	None	SelectOperate	Variation 1	Variation 1
2671	User Data_27.LONG_10	None	SelectOperate	Variation 1	Variation 1
2672	User Data_27.SHORT_1	None	SelectOperate	Variation 2	Variation 2

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2673	User Data_27.SHORT_2	None	SelectOperate	Variation 2	Variation 2
2674	User Data_27.SHORT_3	None	SelectOperate	Variation 2	Variation 2
2675	User Data_27.SHORT_4	None	SelectOperate	Variation 2	Variation 2
2676	User Data_27.SHORT_5	None	SelectOperate	Variation 2	Variation 2
2677	User Data_27.SHORT_6	None	SelectOperate	Variation 2	Variation 2
2678	User Data_27.SHORT_7	None	SelectOperate	Variation 2	Variation 2
2679	User Data_27.SHORT_8	None	SelectOperate	Variation 2	Variation 2
2680	User Data_27.SHORT_9	None	SelectOperate	Variation 2	Variation 2
2681	User Data_27.SHORT_10	None	SelectOperate	Variation 2	Variation 2
2682	User Data_27.BYTE_1	None	SelectOperate	Variation 2	Variation 2
2683	User Data_27.BYTE_2	None	SelectOperate	Variation 2	Variation 2
2684	User Data_27.BYTE_3	None	SelectOperate	Variation 2	Variation 2
2685	User Data_27.BYTE_4	None	SelectOperate	Variation 2	Variation 2
2686	User Data_27.BYTE_5	None	SelectOperate	Variation 2	Variation 2
2687	User Data_27.BYTE_6	None	SelectOperate	Variation 2	Variation 2
2688	User Data_27.BYTE_7	None	SelectOperate	Variation 2	Variation 2
2689	User Data_27.BYTE_8	None	SelectOperate	Variation 2	Variation 2
2690	User Data_27.BYTE_9	None	SelectOperate	Variation 2	Variation 2
2691	User Data_27.BYTE_10	None	SelectOperate	Variation 2	Variation 2
2692	User Data_28.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
2693	User Data_28.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
2694	User Data_28.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
2695	User Data_28.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
2696	User Data_28.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
2697	User Data_28.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
2698	User Data_28.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
2699	User Data_28.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
2700	User Data_28.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
2701	User Data_28.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
2702	User Data_28.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
2703	User Data_28.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
2704	User Data_28.FLOAT_13	None	SelectOperate	Variation 3	Variation 3

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Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2705	User Data_28.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
2706	User Data_28.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
2707	User Data_28.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
2708	User Data_28.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
2709	User Data_28.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
2710	User Data_28.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
2711	User Data_28.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
2712	User Data_28.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
2713	User Data_28.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
2714	User Data_28.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
2715	User Data_28.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
2716	User Data_28.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
2717	User Data_28.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
2718	User Data_28.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
2719	User Data_28.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
2720	User Data_28.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
2721	User Data_28.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
2722	User Data_28.LONG_1	None	SelectOperate	Variation 1	Variation 1
2723	User Data_28.LONG_2	None	SelectOperate	Variation 1	Variation 1
2724	User Data_28.LONG_3	None	SelectOperate	Variation 1	Variation 1
2725	User Data_28.LONG_4	None	SelectOperate	Variation 1	Variation 1
2726	User Data_28.LONG_5	None	SelectOperate	Variation 1	Variation 1
2727	User Data_28.LONG_6	None	SelectOperate	Variation 1	Variation 1
2728	User Data_28.LONG_7	None	SelectOperate	Variation 1	Variation 1
2729	User Data_28.LONG_8	None	SelectOperate	Variation 1	Variation 1
2730	User Data_28.LONG_9	None	SelectOperate	Variation 1	Variation 1
2731	User Data_28.LONG_10	None	SelectOperate	Variation 1	Variation 1
2732	User Data_28.SHORT_1	None	SelectOperate	Variation 2	Variation 2
2733	User Data_28.SHORT_2	None	SelectOperate	Variation 2	Variation 2
2734	User Data_28.SHORT_3	None	SelectOperate	Variation 2	Variation 2
2735	User Data_28.SHORT_4	None	SelectOperate	Variation 2	Variation 2
2736	User Data_28.SHORT_5	None	SelectOperate	Variation 2	Variation 2

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2737	User Data_28.SHORT_6	None	SelectOperate	Variation 2	Variation 2
2738	User Data_28.SHORT_7	None	SelectOperate	Variation 2	Variation 2
2739	User Data_28.SHORT_8	None	SelectOperate	Variation 2	Variation 2
2740	User Data_28.SHORT_9	None	SelectOperate	Variation 2	Variation 2
2741	User Data_28.SHORT_10	None	SelectOperate	Variation 2	Variation 2
2742	User Data_28.BYTE_1	None	SelectOperate	Variation 2	Variation 2
2743	User Data_28.BYTE_2	None	SelectOperate	Variation 2	Variation 2
2744	User Data_28.BYTE_3	None	SelectOperate	Variation 2	Variation 2
2745	User Data_28.BYTE_4	None	SelectOperate	Variation 2	Variation 2
2746	User Data_28.BYTE_5	None	SelectOperate	Variation 2	Variation 2
2747	User Data_28.BYTE_6	None	SelectOperate	Variation 2	Variation 2
2748	User Data_28.BYTE_7	None	SelectOperate	Variation 2	Variation 2
2749	User Data_28.BYTE_8	None	SelectOperate	Variation 2	Variation 2
2750	User Data_28.BYTE_9	None	SelectOperate	Variation 2	Variation 2
2751	User Data_28.BYTE_10	None	SelectOperate	Variation 2	Variation 2
2752	User Data_29.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
2753	User Data_29.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
2754	User Data_29.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
2755	User Data_29.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
2756	User Data_29.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
2757	User Data_29.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
2758	User Data_29.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
2759	User Data_29.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
2760	User Data_29.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
2761	User Data_29.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
2762	User Data_29.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
2763	User Data_29.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
2764	User Data_29.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
2765	User Data_29.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
2766	User Data_29.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
2767	User Data_29.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
2768	User Data_29.FLOAT_17	None	SelectOperate	Variation 3	Variation 3

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2769	User Data_29.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
2770	User Data_29.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
2771	User Data_29.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
2772	User Data_29.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
2773	User Data_29.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
2774	User Data_29.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
2775	User Data_29.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
2776	User Data_29.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
2777	User Data_29.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
2778	User Data_29.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
2779	User Data_29.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
2780	User Data_29.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
2781	User Data_29.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
2782	User Data_29.LONG_1	None	SelectOperate	Variation 1	Variation 1
2783	User Data_29.LONG_2	None	SelectOperate	Variation 1	Variation 1
2784	User Data_29.LONG_3	None	SelectOperate	Variation 1	Variation 1
2785	User Data_29.LONG_4	None	SelectOperate	Variation 1	Variation 1
2786	User Data_29.LONG_5	None	SelectOperate	Variation 1	Variation 1
2787	User Data_29.LONG_6	None	SelectOperate	Variation 1	Variation 1
2788	User Data_29.LONG_7	None	SelectOperate	Variation 1	Variation 1
2789	User Data_29.LONG_8	None	SelectOperate	Variation 1	Variation 1
2790	User Data_29.LONG_9	None	SelectOperate	Variation 1	Variation 1
2791	User Data_29.LONG_10	None	SelectOperate	Variation 1	Variation 1
2792	User Data_29.SHORT_1	None	SelectOperate	Variation 2	Variation 2
2793	User Data_29.SHORT_2	None	SelectOperate	Variation 2	Variation 2
2794	User Data_29.SHORT_3	None	SelectOperate	Variation 2	Variation 2
2795	User Data_29.SHORT_4	None	SelectOperate	Variation 2	Variation 2
2796	User Data_29.SHORT_5	None	SelectOperate	Variation 2	Variation 2
2797	User Data_29.SHORT_6	None	SelectOperate	Variation 2	Variation 2
2798	User Data_29.SHORT_7	None	SelectOperate	Variation 2	Variation 2
2799	User Data_29.SHORT_8	None	SelectOperate	Variation 2	Variation 2
2800	User Data_29.SHORT_9	None	SelectOperate	Variation 2	Variation 2

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2801	User Data_29.SHORT_10	None	SelectOperate	Variation 2	Variation 2
2802	User Data_29.BYTE_1	None	SelectOperate	Variation 2	Variation 2
2803	User Data_29.BYTE_2	None	SelectOperate	Variation 2	Variation 2
2804	User Data_29.BYTE_3	None	SelectOperate	Variation 2	Variation 2
2805	User Data_29.BYTE_4	None	SelectOperate	Variation 2	Variation 2
2806	User Data_29.BYTE_5	None	SelectOperate	Variation 2	Variation 2
2807	User Data_29.BYTE_6	None	SelectOperate	Variation 2	Variation 2
2808	User Data_29.BYTE_7	None	SelectOperate	Variation 2	Variation 2
2809	User Data_29.BYTE_8	None	SelectOperate	Variation 2	Variation 2
2810	User Data_29.BYTE_9	None	SelectOperate	Variation 2	Variation 2
2811	User Data_29.BYTE_10	None	SelectOperate	Variation 2	Variation 2
2812	User Data_30.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
2813	User Data_30.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
2814	User Data_30.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
2815	User Data_30.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
2816	User Data_30.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
2817	User Data_30.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
2818	User Data_30.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
2819	User Data_30.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
2820	User Data_30.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
2821	User Data_30.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
2822	User Data_30.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
2823	User Data_30.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
2824	User Data_30.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
2825	User Data_30.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
2826	User Data_30.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
2827	User Data_30.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
2828	User Data_30.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
2829	User Data_30.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
2830	User Data_30.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
2831	User Data_30.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
2832	User Data_30.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4

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Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2833	User Data_30.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
2834	User Data_30.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
2835	User Data_30.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
2836	User Data_30.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
2837	User Data_30.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
2838	User Data_30.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
2839	User Data_30.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
2840	User Data_30.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
2841	User Data_30.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
2842	User Data_30.LONG_1	None	SelectOperate	Variation 1	Variation 1
2843	User Data_30.LONG_2	None	SelectOperate	Variation 1	Variation 1
2844	User Data_30.LONG_3	None	SelectOperate	Variation 1	Variation 1
2845	User Data_30.LONG_4	None	SelectOperate	Variation 1	Variation 1
2846	User Data_30.LONG_5	None	SelectOperate	Variation 1	Variation 1
2847	User Data_30.LONG_6	None	SelectOperate	Variation 1	Variation 1
2848	User Data_30.LONG_7	None	SelectOperate	Variation 1	Variation 1
2849	User Data_30.LONG_8	None	SelectOperate	Variation 1	Variation 1
2850	User Data_30.LONG_9	None	SelectOperate	Variation 1	Variation 1
2851	User Data_30.LONG_10	None	SelectOperate	Variation 1	Variation 1
2852	User Data_30.SHORT_1	None	SelectOperate	Variation 2	Variation 2
2853	User Data_30.SHORT_2	None	SelectOperate	Variation 2	Variation 2
2854	User Data_30.SHORT_3	None	SelectOperate	Variation 2	Variation 2
2855	User Data_30.SHORT_4	None	SelectOperate	Variation 2	Variation 2
2856	User Data_30.SHORT_5	None	SelectOperate	Variation 2	Variation 2
2857	User Data_30.SHORT_6	None	SelectOperate	Variation 2	Variation 2
2858	User Data_30.SHORT_7	None	SelectOperate	Variation 2	Variation 2
2859	User Data_30.SHORT_8	None	SelectOperate	Variation 2	Variation 2
2860	User Data_30.SHORT_9	None	SelectOperate	Variation 2	Variation 2
2861	User Data_30.SHORT_10	None	SelectOperate	Variation 2	Variation 2
2862	User Data_30.BYTE_1	None	SelectOperate	Variation 2	Variation 2
2863	User Data_30.BYTE_2	None	SelectOperate	Variation 2	Variation 2
2864	User Data_30.BYTE_3	None	SelectOperate	Variation 2	Variation 2



Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2865	User Data_30.BYTE_4	None	SelectOperate	Variation 2	Variation 2
2866	User Data_30.BYTE_5	None	SelectOperate	Variation 2	Variation 2
2867	User Data_30.BYTE_6	None	SelectOperate	Variation 2	Variation 2
2868	User Data_30.BYTE_7	None	SelectOperate	Variation 2	Variation 2
2869	User Data_30.BYTE_8	None	SelectOperate	Variation 2	Variation 2
2870	User Data_30.BYTE_9	None	SelectOperate	Variation 2	Variation 2
2871	User Data_30.BYTE_10	None	SelectOperate	Variation 2	Variation 2
2872	User Data_31.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
2873	User Data_31.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
2874	User Data_31.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
2875	User Data_31.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
2876	User Data_31.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
2877	User Data_31.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
2878	User Data_31.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
2879	User Data_31.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
2880	User Data_31.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
2881	User Data_31.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
2882	User Data_31.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
2883	User Data_31.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
2884	User Data_31.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
2885	User Data_31.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
2886	User Data_31.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
2887	User Data_31.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
2888	User Data_31.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
2889	User Data_31.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
2890	User Data_31.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
2891	User Data_31.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
2892	User Data_31.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
2893	User Data_31.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
2894	User Data_31.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
2895	User Data_31.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
2896	User Data_31.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4

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2897	User Data_31.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
2898	User Data_31.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
2899	User Data_31.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
2900	User Data_31.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
2901	User Data_31.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
2902	User Data_31.LONG_1	None	SelectOperate	Variation 1	Variation 1
2903	User Data_31.LONG_2	None	SelectOperate	Variation 1	Variation 1
2904	User Data_31.LONG_3	None	SelectOperate	Variation 1	Variation 1
2905	User Data_31.LONG_4	None	SelectOperate	Variation 1	Variation 1
2906	User Data_31.LONG_5	None	SelectOperate	Variation 1	Variation 1
2907	User Data_31.LONG_6	None	SelectOperate	Variation 1	Variation 1
2908	User Data_31.LONG_7	None	SelectOperate	Variation 1	Variation 1
2909	User Data_31.LONG_8	None	SelectOperate	Variation 1	Variation 1
2910	User Data_31.LONG_9	None	SelectOperate	Variation 1	Variation 1
2911	User Data_31.LONG_10	None	SelectOperate	Variation 1	Variation 1
2912	User Data_31.SHORT_1	None	SelectOperate	Variation 2	Variation 2
2913	User Data_31.SHORT_2	None	SelectOperate	Variation 2	Variation 2
2914	User Data_31.SHORT_3	None	SelectOperate	Variation 2	Variation 2
2915	User Data_31.SHORT_4	None	SelectOperate	Variation 2	Variation 2
2916	User Data_31.SHORT_5	None	SelectOperate	Variation 2	Variation 2
2917	User Data_31.SHORT_6	None	SelectOperate	Variation 2	Variation 2
2918	User Data_31.SHORT_7	None	SelectOperate	Variation 2	Variation 2
2919	User Data_31.SHORT_8	None	SelectOperate	Variation 2	Variation 2
2920	User Data_31.SHORT_9	None	SelectOperate	Variation 2	Variation 2
2921	User Data_31.SHORT_10	None	SelectOperate	Variation 2	Variation 2
2922	User Data_31.BYTE_1	None	SelectOperate	Variation 2	Variation 2
2923	User Data_31.BYTE_2	None	SelectOperate	Variation 2	Variation 2
2924	User Data_31.BYTE_3	None	SelectOperate	Variation 2	Variation 2
2925	User Data_31.BYTE_4	None	SelectOperate	Variation 2	Variation 2
2926	User Data_31.BYTE_5	None	SelectOperate	Variation 2	Variation 2
2927	User Data_31.BYTE_6	None	SelectOperate	Variation 2	Variation 2
2928	User Data_31.BYTE_7	None	SelectOperate	Variation 2	Variation 2

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2929	User Data_31.BYTE_8	None	SelectOperate	Variation 2	Variation 2
2930	User Data_31.BYTE_9	None	SelectOperate	Variation 2	Variation 2
2931	User Data_31.BYTE_10	None	SelectOperate	Variation 2	Variation 2
2932	User Data_32.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
2933	User Data_32.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
2934	User Data_32.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
2935	User Data_32.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
2936	User Data_32.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
2937	User Data_32.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
2938	User Data_32.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
2939	User Data_32.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
2940	User Data_32.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
2941	User Data_32.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
2942	User Data_32.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
2943	User Data_32.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
2944	User Data_32.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
2945	User Data_32.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
2946	User Data_32.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
2947	User Data_32.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
2948	User Data_32.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
2949	User Data_32.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
2950	User Data_32.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
2951	User Data_32.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
2952	User Data_32.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
2953	User Data_32.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
2954	User Data_32.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
2955	User Data_32.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
2956	User Data_32.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
2957	User Data_32.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
2958	User Data_32.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
2959	User Data_32.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
2960	User Data_32.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4

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2961	User Data_32.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
2962	User Data_32.LONG_1	None	SelectOperate	Variation 1	Variation 1
2963	User Data_32.LONG_2	None	SelectOperate	Variation 1	Variation 1
2964	User Data_32.LONG_3	None	SelectOperate	Variation 1	Variation 1
2965	User Data_32.LONG_4	None	SelectOperate	Variation 1	Variation 1
2966	User Data_32.LONG_5	None	SelectOperate	Variation 1	Variation 1
2967	User Data_32.LONG_6	None	SelectOperate	Variation 1	Variation 1
2968	User Data_32.LONG_7	None	SelectOperate	Variation 1	Variation 1
2969	User Data_32.LONG_8	None	SelectOperate	Variation 1	Variation 1
2970	User Data_32.LONG_9	None	SelectOperate	Variation 1	Variation 1
2971	User Data_32.LONG_10	None	SelectOperate	Variation 1	Variation 1
2972	User Data_32.SHORT_1	None	SelectOperate	Variation 2	Variation 2
2973	User Data_32.SHORT_2	None	SelectOperate	Variation 2	Variation 2
2974	User Data_32.SHORT_3	None	SelectOperate	Variation 2	Variation 2
2975	User Data_32.SHORT_4	None	SelectOperate	Variation 2	Variation 2
2976	User Data_32.SHORT_5	None	SelectOperate	Variation 2	Variation 2
2977	User Data_32.SHORT_6	None	SelectOperate	Variation 2	Variation 2
2978	User Data_32.SHORT_7	None	SelectOperate	Variation 2	Variation 2
2979	User Data_32.SHORT_8	None	SelectOperate	Variation 2	Variation 2
2980	User Data_32.SHORT_9	None	SelectOperate	Variation 2	Variation 2
2981	User Data_32.SHORT_10	None	SelectOperate	Variation 2	Variation 2
2982	User Data_32.BYTE_1	None	SelectOperate	Variation 2	Variation 2
2983	User Data_32.BYTE_2	None	SelectOperate	Variation 2	Variation 2
2984	User Data_32.BYTE_3	None	SelectOperate	Variation 2	Variation 2
2985	User Data_32.BYTE_4	None	SelectOperate	Variation 2	Variation 2
2986	User Data_32.BYTE_5	None	SelectOperate	Variation 2	Variation 2
2987	User Data_32.BYTE_6	None	SelectOperate	Variation 2	Variation 2
2988	User Data_32.BYTE_7	None	SelectOperate	Variation 2	Variation 2
2989	User Data_32.BYTE_8	None	SelectOperate	Variation 2	Variation 2
2990	User Data_32.BYTE_9	None	SelectOperate	Variation 2	Variation 2
2991	User Data_32.BYTE_10	None	SelectOperate	Variation 2	Variation 2
2992	User Data_33.FLOAT_1	None	SelectOperate	Variation 3	Variation 3

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
2993	User Data_33.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
2994	User Data_33.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
2995	User Data_33.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
2996	User Data_33.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
2997	User Data_33.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
2998	User Data_33.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
2999	User Data_33.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
3000	User Data_33.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
3001	User Data_33.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
3002	User Data_33.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
3003	User Data_33.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
3004	User Data_33.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
3005	User Data_33.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
3006	User Data_33.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
3007	User Data_33.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
3008	User Data_33.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
3009	User Data_33.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
3010	User Data_33.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
3011	User Data_33.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
3012	User Data_33.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
3013	User Data_33.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
3014	User Data_33.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
3015	User Data_33.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
3016	User Data_33.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
3017	User Data_33.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
3018	User Data_33.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
3019	User Data_33.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
3020	User Data_33.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
3021	User Data_33.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
3022	User Data_33.LONG_1	None	SelectOperate	Variation 1	Variation 1
3023	User Data_33.LONG_2	None	SelectOperate	Variation 1	Variation 1
3024	User Data_33.LONG_3	None	SelectOperate	Variation 1	Variation 1

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3025	User Data_33.LONG_4	None	SelectOperate	Variation 1	Variation 1
3026	User Data_33.LONG_5	None	SelectOperate	Variation 1	Variation 1
3027	User Data_33.LONG_6	None	SelectOperate	Variation 1	Variation 1
3028	User Data_33.LONG_7	None	SelectOperate	Variation 1	Variation 1
3029	User Data_33.LONG_8	None	SelectOperate	Variation 1	Variation 1
3030	User Data_33.LONG_9	None	SelectOperate	Variation 1	Variation 1
3031	User Data_33.LONG_10	None	SelectOperate	Variation 1	Variation 1
3032	User Data_33.SHORT_1	None	SelectOperate	Variation 2	Variation 2
3033	User Data_33.SHORT_2	None	SelectOperate	Variation 2	Variation 2
3034	User Data_33.SHORT_3	None	SelectOperate	Variation 2	Variation 2
3035	User Data_33.SHORT_4	None	SelectOperate	Variation 2	Variation 2
3036	User Data_33.SHORT_5	None	SelectOperate	Variation 2	Variation 2
3037	User Data_33.SHORT_6	None	SelectOperate	Variation 2	Variation 2
3038	User Data_33.SHORT_7	None	SelectOperate	Variation 2	Variation 2
3039	User Data_33.SHORT_8	None	SelectOperate	Variation 2	Variation 2
3040	User Data_33.SHORT_9	None	SelectOperate	Variation 2	Variation 2
3041	User Data_33.SHORT_10	None	SelectOperate	Variation 2	Variation 2
3042	User Data_33.BYTE_1	None	SelectOperate	Variation 2	Variation 2
3043	User Data_33.BYTE_2	None	SelectOperate	Variation 2	Variation 2
3044	User Data_33.BYTE_3	None	SelectOperate	Variation 2	Variation 2
3045	User Data_33.BYTE_4	None	SelectOperate	Variation 2	Variation 2
3046	User Data_33.BYTE_5	None	SelectOperate	Variation 2	Variation 2
3047	User Data_33.BYTE_6	None	SelectOperate	Variation 2	Variation 2
3048	User Data_33.BYTE_7	None	SelectOperate	Variation 2	Variation 2
3049	User Data_33.BYTE_8	None	SelectOperate	Variation 2	Variation 2
3050	User Data_33.BYTE_9	None	SelectOperate	Variation 2	Variation 2
3051	User Data_33.BYTE_10	None	SelectOperate	Variation 2	Variation 2
3052	User Data_34.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
3053	User Data_34.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
3054	User Data_34.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
3055	User Data_34.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
3056	User Data_34.FLOAT_5	None	SelectOperate	Variation 3	Variation 3

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
3057	User Data_34.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
3058	User Data_34.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
3059	User Data_34.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
3060	User Data_34.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
3061	User Data_34.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
3062	User Data_34.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
3063	User Data_34.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
3064	User Data_34.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
3065	User Data_34.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
3066	User Data_34.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
3067	User Data_34.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
3068	User Data_34.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
3069	User Data_34.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
3070	User Data_34.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
3071	User Data_34.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
3072	User Data_34.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
3073	User Data_34.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
3074	User Data_34.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
3075	User Data_34.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
3076	User Data_34.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
3077	User Data_34.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
3078	User Data_34.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
3079	User Data_34.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
3080	User Data_34.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
3081	User Data_34.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
3082	User Data_34.LONG_1	None	SelectOperate	Variation 1	Variation 1
3083	User Data_34.LONG_2	None	SelectOperate	Variation 1	Variation 1
3084	User Data_34.LONG_3	None	SelectOperate	Variation 1	Variation 1
3085	User Data_34.LONG_4	None	SelectOperate	Variation 1	Variation 1
3086	User Data_34.LONG_5	None	SelectOperate	Variation 1	Variation 1
3087	User Data_34.LONG_6	None	SelectOperate	Variation 1	Variation 1
3088	User Data_34.LONG_7	None	SelectOperate	Variation 1	Variation 1

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3089	User Data_34.LONG_8	None	SelectOperate	Variation 1	Variation 1
3090	User Data_34.LONG_9	None	SelectOperate	Variation 1	Variation 1
3091	User Data_34.LONG_10	None	SelectOperate	Variation 1	Variation 1
3092	User Data_34.SHORT_1	None	SelectOperate	Variation 2	Variation 2
3093	User Data_34.SHORT_2	None	SelectOperate	Variation 2	Variation 2
3094	User Data_34.SHORT_3	None	SelectOperate	Variation 2	Variation 2
3095	User Data_34.SHORT_4	None	SelectOperate	Variation 2	Variation 2
3096	User Data_34.SHORT_5	None	SelectOperate	Variation 2	Variation 2
3097	User Data_34.SHORT_6	None	SelectOperate	Variation 2	Variation 2
3098	User Data_34.SHORT_7	None	SelectOperate	Variation 2	Variation 2
3099	User Data_34.SHORT_8	None	SelectOperate	Variation 2	Variation 2
3100	User Data_34.SHORT_9	None	SelectOperate	Variation 2	Variation 2
3101	User Data_34.SHORT_10	None	SelectOperate	Variation 2	Variation 2
3102	User Data_34.BYTE_1	None	SelectOperate	Variation 2	Variation 2
3103	User Data_34.BYTE_2	None	SelectOperate	Variation 2	Variation 2
3104	User Data_34.BYTE_3	None	SelectOperate	Variation 2	Variation 2
3105	User Data_34.BYTE_4	None	SelectOperate	Variation 2	Variation 2
3106	User Data_34.BYTE_5	None	SelectOperate	Variation 2	Variation 2
3107	User Data_34.BYTE_6	None	SelectOperate	Variation 2	Variation 2
3108	User Data_34.BYTE_7	None	SelectOperate	Variation 2	Variation 2
3109	User Data_34.BYTE_8	None	SelectOperate	Variation 2	Variation 2
3110	User Data_34.BYTE_9	None	SelectOperate	Variation 2	Variation 2
3111	User Data_34.BYTE_10	None	SelectOperate	Variation 2	Variation 2
3112	User Data_35.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
3113	User Data_35.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
3114	User Data_35.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
3115	User Data_35.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
3116	User Data_35.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
3117	User Data_35.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
3118	User Data_35.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
3119	User Data_35.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
3120	User Data_35.FLOAT_9	None	SelectOperate	Variation 3	Variation 3



Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
3121	User Data_35.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
3122	User Data_35.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
3123	User Data_35.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
3124	User Data_35.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
3125	User Data_35.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
3126	User Data_35.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
3127	User Data_35.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
3128	User Data_35.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
3129	User Data_35.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
3130	User Data_35.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
3131	User Data_35.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
3132	User Data_35.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
3133	User Data_35.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
3134	User Data_35.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
3135	User Data_35.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
3136	User Data_35.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
3137	User Data_35.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
3138	User Data_35.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
3139	User Data_35.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
3140	User Data_35.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
3141	User Data_35.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
3142	User Data_35.LONG_1	None	SelectOperate	Variation 1	Variation 1
3143	User Data_35.LONG_2	None	SelectOperate	Variation 1	Variation 1
3144	User Data_35.LONG_3	None	SelectOperate	Variation 1	Variation 1
3145	User Data_35.LONG_4	None	SelectOperate	Variation 1	Variation 1
3146	User Data_35.LONG_5	None	SelectOperate	Variation 1	Variation 1
3147	User Data_35.LONG_6	None	SelectOperate	Variation 1	Variation 1
3148	User Data_35.LONG_7	None	SelectOperate	Variation 1	Variation 1
3149	User Data_35.LONG_8	None	SelectOperate	Variation 1	Variation 1
3150	User Data_35.LONG_9	None	SelectOperate	Variation 1	Variation 1
3151	User Data_35.LONG_10	None	SelectOperate	Variation 1	Variation 1
3152	User Data_35.SHORT_1	None	SelectOperate	Variation 2	Variation 2

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3153	User Data_35.SHORT_2	None	SelectOperate	Variation 2	Variation 2
3154	User Data_35.SHORT_3	None	SelectOperate	Variation 2	Variation 2
3155	User Data_35.SHORT_4	None	SelectOperate	Variation 2	Variation 2
3156	User Data_35.SHORT_5	None	SelectOperate	Variation 2	Variation 2
3157	User Data_35.SHORT_6	None	SelectOperate	Variation 2	Variation 2
3158	User Data_35.SHORT_7	None	SelectOperate	Variation 2	Variation 2
3159	User Data_35.SHORT_8	None	SelectOperate	Variation 2	Variation 2
3160	User Data_35.SHORT_9	None	SelectOperate	Variation 2	Variation 2
3161	User Data_35.SHORT_10	None	SelectOperate	Variation 2	Variation 2
3162	User Data_35.BYTE_1	None	SelectOperate	Variation 2	Variation 2
3163	User Data_35.BYTE_2	None	SelectOperate	Variation 2	Variation 2
3164	User Data_35.BYTE_3	None	SelectOperate	Variation 2	Variation 2
3165	User Data_35.BYTE_4	None	SelectOperate	Variation 2	Variation 2
3166	User Data_35.BYTE_5	None	SelectOperate	Variation 2	Variation 2
3167	User Data_35.BYTE_6	None	SelectOperate	Variation 2	Variation 2
3168	User Data_35.BYTE_7	None	SelectOperate	Variation 2	Variation 2
3169	User Data_35.BYTE_8	None	SelectOperate	Variation 2	Variation 2
3170	User Data_35.BYTE_9	None	SelectOperate	Variation 2	Variation 2
3171	User Data_35.BYTE_10	None	SelectOperate	Variation 2	Variation 2
3172	User Data_36.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
3173	User Data_36.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
3174	User Data_36.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
3175	User Data_36.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
3176	User Data_36.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
3177	User Data_36.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
3178	User Data_36.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
3179	User Data_36.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
3180	User Data_36.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
3181	User Data_36.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
3182	User Data_36.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
3183	User Data_36.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
3184	User Data_36.FLOAT_13	None	SelectOperate	Variation 3	Variation 3

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
3185	User Data_36.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
3186	User Data_36.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
3187	User Data_36.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
3188	User Data_36.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
3189	User Data_36.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
3190	User Data_36.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
3191	User Data_36.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
3192	User Data_36.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
3193	User Data_36.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
3194	User Data_36.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
3195	User Data_36.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
3196	User Data_36.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
3197	User Data_36.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
3198	User Data_36.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
3199	User Data_36.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
3200	User Data_36.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
3201	User Data_36.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
3202	User Data_36.LONG_1	None	SelectOperate	Variation 1	Variation 1
3203	User Data_36.LONG_2	None	SelectOperate	Variation 1	Variation 1
3204	User Data_36.LONG_3	None	SelectOperate	Variation 1	Variation 1
3205	User Data_36.LONG_4	None	SelectOperate	Variation 1	Variation 1
3206	User Data_36.LONG_5	None	SelectOperate	Variation 1	Variation 1
3207	User Data_36.LONG_6	None	SelectOperate	Variation 1	Variation 1
3208	User Data_36.LONG_7	None	SelectOperate	Variation 1	Variation 1
3209	User Data_36.LONG_8	None	SelectOperate	Variation 1	Variation 1
3210	User Data_36.LONG_9	None	SelectOperate	Variation 1	Variation 1
3211	User Data_36.LONG_10	None	SelectOperate	Variation 1	Variation 1
3212	User Data_36.SHORT_1	None	SelectOperate	Variation 2	Variation 2
3213	User Data_36.SHORT_2	None	SelectOperate	Variation 2	Variation 2
3214	User Data_36.SHORT_3	None	SelectOperate	Variation 2	Variation 2
3215	User Data_36.SHORT_4	None	SelectOperate	Variation 2	Variation 2
3216	User Data_36.SHORT_5	None	SelectOperate	Variation 2	Variation 2

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3217	User Data_36.SHORT_6	None	SelectOperate	Variation 2	Variation 2
3218	User Data_36.SHORT_7	None	SelectOperate	Variation 2	Variation 2
3219	User Data_36.SHORT_8	None	SelectOperate	Variation 2	Variation 2
3220	User Data_36.SHORT_9	None	SelectOperate	Variation 2	Variation 2
3221	User Data_36.SHORT_10	None	SelectOperate	Variation 2	Variation 2
3222	User Data_36.BYTE_1	None	SelectOperate	Variation 2	Variation 2
3223	User Data_36.BYTE_2	None	SelectOperate	Variation 2	Variation 2
3224	User Data_36.BYTE_3	None	SelectOperate	Variation 2	Variation 2
3225	User Data_36.BYTE_4	None	SelectOperate	Variation 2	Variation 2
3226	User Data_36.BYTE_5	None	SelectOperate	Variation 2	Variation 2
3227	User Data_36.BYTE_6	None	SelectOperate	Variation 2	Variation 2
3228	User Data_36.BYTE_7	None	SelectOperate	Variation 2	Variation 2
3229	User Data_36.BYTE_8	None	SelectOperate	Variation 2	Variation 2
3230	User Data_36.BYTE_9	None	SelectOperate	Variation 2	Variation 2
3231	User Data_36.BYTE_10	None	SelectOperate	Variation 2	Variation 2
3232	User Data_37.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
3233	User Data_37.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
3234	User Data_37.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
3235	User Data_37.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
3236	User Data_37.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
3237	User Data_37.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
3238	User Data_37.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
3239	User Data_37.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
3240	User Data_37.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
3241	User Data_37.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
3242	User Data_37.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
3243	User Data_37.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
3244	User Data_37.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
3245	User Data_37.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
3246	User Data_37.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
3247	User Data_37.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
3248	User Data_37.FLOAT_17	None	SelectOperate	Variation 3	Variation 3

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
3249	User Data_37.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
3250	User Data_37.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
3251	User Data_37.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
3252	User Data_37.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
3253	User Data_37.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
3254	User Data_37.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
3255	User Data_37.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
3256	User Data_37.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
3257	User Data_37.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
3258	User Data_37.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
3259	User Data_37.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
3260	User Data_37.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
3261	User Data_37.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
3262	User Data_37.LONG_1	None	SelectOperate	Variation 1	Variation 1
3263	User Data_37.LONG_2	None	SelectOperate	Variation 1	Variation 1
3264	User Data_37.LONG_3	None	SelectOperate	Variation 1	Variation 1
3265	User Data_37.LONG_4	None	SelectOperate	Variation 1	Variation 1
3266	User Data_37.LONG_5	None	SelectOperate	Variation 1	Variation 1
3267	User Data_37.LONG_6	None	SelectOperate	Variation 1	Variation 1
3268	User Data_37.LONG_7	None	SelectOperate	Variation 1	Variation 1
3269	User Data_37.LONG_8	None	SelectOperate	Variation 1	Variation 1
3270	User Data_37.LONG_9	None	SelectOperate	Variation 1	Variation 1
3271	User Data_37.LONG_10	None	SelectOperate	Variation 1	Variation 1
3272	User Data_37.SHORT_1	None	SelectOperate	Variation 2	Variation 2
3273	User Data_37.SHORT_2	None	SelectOperate	Variation 2	Variation 2
3274	User Data_37.SHORT_3	None	SelectOperate	Variation 2	Variation 2
3275	User Data_37.SHORT_4	None	SelectOperate	Variation 2	Variation 2
3276	User Data_37.SHORT_5	None	SelectOperate	Variation 2	Variation 2
3277	User Data_37.SHORT_6	None	SelectOperate	Variation 2	Variation 2
3278	User Data_37.SHORT_7	None	SelectOperate	Variation 2	Variation 2
3279	User Data_37.SHORT_8	None	SelectOperate	Variation 2	Variation 2
3280	User Data_37.SHORT_9	None	SelectOperate	Variation 2	Variation 2

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Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
3281	User Data_37.SHORT_10	None	SelectOperate	Variation 2	Variation 2
3282	User Data_37.BYTE_1	None	SelectOperate	Variation 2	Variation 2
3283	User Data_37.BYTE_2	None	SelectOperate	Variation 2	Variation 2
3284	User Data_37.BYTE_3	None	SelectOperate	Variation 2	Variation 2
3285	User Data_37.BYTE_4	None	SelectOperate	Variation 2	Variation 2
3286	User Data_37.BYTE_5	None	SelectOperate	Variation 2	Variation 2
3287	User Data_37.BYTE_6	None	SelectOperate	Variation 2	Variation 2
3288	User Data_37.BYTE_7	None	SelectOperate	Variation 2	Variation 2
3289	User Data_37.BYTE_8	None	SelectOperate	Variation 2	Variation 2
3290	User Data_37.BYTE_9	None	SelectOperate	Variation 2	Variation 2
3291	User Data_37.BYTE_10	None	SelectOperate	Variation 2	Variation 2
3292	User Data_38.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
3293	User Data_38.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
3294	User Data_38.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
3295	User Data_38.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
3296	User Data_38.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
3297	User Data_38.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
3298	User Data_38.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
3299	User Data_38.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
3300	User Data_38.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
3301	User Data_38.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
3302	User Data_38.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
3303	User Data_38.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
3304	User Data_38.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
3305	User Data_38.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
3306	User Data_38.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
3307	User Data_38.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
3308	User Data_38.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
3309	User Data_38.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
3310	User Data_38.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
3311	User Data_38.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
3312	User Data_38.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
3313	User Data_38.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
3314	User Data_38.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
3315	User Data_38.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
3316	User Data_38.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
3317	User Data_38.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
3318	User Data_38.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
3319	User Data_38.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
3320	User Data_38.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
3321	User Data_38.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
3322	User Data_38.LONG_1	None	SelectOperate	Variation 1	Variation 1
3323	User Data_38.LONG_2	None	SelectOperate	Variation 1	Variation 1
3324	User Data_38.LONG_3	None	SelectOperate	Variation 1	Variation 1
3325	User Data_38.LONG_4	None	SelectOperate	Variation 1	Variation 1
3326	User Data_38.LONG_5	None	SelectOperate	Variation 1	Variation 1
3327	User Data_38.LONG_6	None	SelectOperate	Variation 1	Variation 1
3328	User Data_38.LONG_7	None	SelectOperate	Variation 1	Variation 1
3329	User Data_38.LONG_8	None	SelectOperate	Variation 1	Variation 1
3330	User Data_38.LONG_9	None	SelectOperate	Variation 1	Variation 1
3331	User Data_38.LONG_10	None	SelectOperate	Variation 1	Variation 1
3332	User Data_38.SHORT_1	None	SelectOperate	Variation 2	Variation 2
3333	User Data_38.SHORT_2	None	SelectOperate	Variation 2	Variation 2
3334	User Data_38.SHORT_3	None	SelectOperate	Variation 2	Variation 2
3335	User Data_38.SHORT_4	None	SelectOperate	Variation 2	Variation 2
3336	User Data_38.SHORT_5	None	SelectOperate	Variation 2	Variation 2
3337	User Data_38.SHORT_6	None	SelectOperate	Variation 2	Variation 2
3338	User Data_38.SHORT_7	None	SelectOperate	Variation 2	Variation 2
3339	User Data_38.SHORT_8	None	SelectOperate	Variation 2	Variation 2
3340	User Data_38.SHORT_9	None	SelectOperate	Variation 2	Variation 2
3341	User Data_38.SHORT_10	None	SelectOperate	Variation 2	Variation 2
3342	User Data_38.BYTE_1	None	SelectOperate	Variation 2	Variation 2
3343	User Data_38.BYTE_2	None	SelectOperate	Variation 2	Variation 2
3344	User Data_38.BYTE_3	None	SelectOperate	Variation 2	Variation 2

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3345	User Data_38.BYTE_4	None	SelectOperate	Variation 2	Variation 2
3346	User Data_38.BYTE_5	None	SelectOperate	Variation 2	Variation 2
3347	User Data_38.BYTE_6	None	SelectOperate	Variation 2	Variation 2
3348	User Data_38.BYTE_7	None	SelectOperate	Variation 2	Variation 2
3349	User Data_38.BYTE_8	None	SelectOperate	Variation 2	Variation 2
3350	User Data_38.BYTE_9	None	SelectOperate	Variation 2	Variation 2
3351	User Data_38.BYTE_10	None	SelectOperate	Variation 2	Variation 2
3352	User Data_39.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
3353	User Data_39.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
3354	User Data_39.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
3355	User Data_39.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
3356	User Data_39.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
3357	User Data_39.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
3358	User Data_39.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
3359	User Data_39.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
3360	User Data_39.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
3361	User Data_39.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
3362	User Data_39.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
3363	User Data_39.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
3364	User Data_39.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
3365	User Data_39.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
3366	User Data_39.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
3367	User Data_39.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
3368	User Data_39.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
3369	User Data_39.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
3370	User Data_39.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
3371	User Data_39.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
3372	User Data_39.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
3373	User Data_39.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
3374	User Data_39.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
3375	User Data_39.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
3376	User Data_39.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4



Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
3377	User Data_39.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
3378	User Data_39.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
3379	User Data_39.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
3380	User Data_39.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
3381	User Data_39.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
3382	User Data_39.LONG_1	None	SelectOperate	Variation 1	Variation 1
3383	User Data_39.LONG_2	None	SelectOperate	Variation 1	Variation 1
3384	User Data_39.LONG_3	None	SelectOperate	Variation 1	Variation 1
3385	User Data_39.LONG_4	None	SelectOperate	Variation 1	Variation 1
3386	User Data_39.LONG_5	None	SelectOperate	Variation 1	Variation 1
3387	User Data_39.LONG_6	None	SelectOperate	Variation 1	Variation 1
3388	User Data_39.LONG_7	None	SelectOperate	Variation 1	Variation 1
3389	User Data_39.LONG_8	None	SelectOperate	Variation 1	Variation 1
3390	User Data_39.LONG_9	None	SelectOperate	Variation 1	Variation 1
3391	User Data_39.LONG_10	None	SelectOperate	Variation 1	Variation 1
3392	User Data_39.SHORT_1	None	SelectOperate	Variation 2	Variation 2
3393	User Data_39.SHORT_2	None	SelectOperate	Variation 2	Variation 2
3394	User Data_39.SHORT_3	None	SelectOperate	Variation 2	Variation 2
3395	User Data_39.SHORT_4	None	SelectOperate	Variation 2	Variation 2
3396	User Data_39.SHORT_5	None	SelectOperate	Variation 2	Variation 2
3397	User Data_39.SHORT_6	None	SelectOperate	Variation 2	Variation 2
3398	User Data_39.SHORT_7	None	SelectOperate	Variation 2	Variation 2
3399	User Data_39.SHORT_8	None	SelectOperate	Variation 2	Variation 2
3400	User Data_39.SHORT_9	None	SelectOperate	Variation 2	Variation 2
3401	User Data_39.SHORT_10	None	SelectOperate	Variation 2	Variation 2
3402	User Data_39.BYTE_1	None	SelectOperate	Variation 2	Variation 2
3403	User Data_39.BYTE_2	None	SelectOperate	Variation 2	Variation 2
3404	User Data_39.BYTE_3	None	SelectOperate	Variation 2	Variation 2
3405	User Data_39.BYTE_4	None	SelectOperate	Variation 2	Variation 2
3406	User Data_39.BYTE_5	None	SelectOperate	Variation 2	Variation 2
3407	User Data_39.BYTE_6	None	SelectOperate	Variation 2	Variation 2
3408	User Data_39.BYTE_7	None	SelectOperate	Variation 2	Variation 2

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3409	User Data_39.BYTE_8	None	SelectOperate	Variation 2	Variation 2
3410	User Data_39.BYTE_9	None	SelectOperate	Variation 2	Variation 2
3411	User Data_39.BYTE_10	None	SelectOperate	Variation 2	Variation 2
3412	User Data_40.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
3413	User Data_40.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
3414	User Data_40.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
3415	User Data_40.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
3416	User Data_40.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
3417	User Data_40.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
3418	User Data_40.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
3419	User Data_40.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
3420	User Data_40.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
3421	User Data_40.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
3422	User Data_40.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
3423	User Data_40.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
3424	User Data_40.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
3425	User Data_40.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
3426	User Data_40.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
3427	User Data_40.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
3428	User Data_40.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
3429	User Data_40.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
3430	User Data_40.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
3431	User Data_40.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
3432	User Data_40.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
3433	User Data_40.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
3434	User Data_40.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
3435	User Data_40.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
3436	User Data_40.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
3437	User Data_40.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
3438	User Data_40.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
3439	User Data_40.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
3440	User Data_40.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
3441	User Data_40.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
3442	User Data_40.LONG_1	None	SelectOperate	Variation 1	Variation 1
3443	User Data_40.LONG_2	None	SelectOperate	Variation 1	Variation 1
3444	User Data_40.LONG_3	None	SelectOperate	Variation 1	Variation 1
3445	User Data_40.LONG_4	None	SelectOperate	Variation 1	Variation 1
3446	User Data_40.LONG_5	None	SelectOperate	Variation 1	Variation 1
3447	User Data_40.LONG_6	None	SelectOperate	Variation 1	Variation 1
3448	User Data_40.LONG_7	None	SelectOperate	Variation 1	Variation 1
3449	User Data_40.LONG_8	None	SelectOperate	Variation 1	Variation 1
3450	User Data_40.LONG_9	None	SelectOperate	Variation 1	Variation 1
3451	User Data_40.LONG_10	None	SelectOperate	Variation 1	Variation 1
3452	User Data_40.SHORT_1	None	SelectOperate	Variation 2	Variation 2
3453	User Data_40.SHORT_2	None	SelectOperate	Variation 2	Variation 2
3454	User Data_40.SHORT_3	None	SelectOperate	Variation 2	Variation 2
3455	User Data_40.SHORT_4	None	SelectOperate	Variation 2	Variation 2
3456	User Data_40.SHORT_5	None	SelectOperate	Variation 2	Variation 2
3457	User Data_40.SHORT_6	None	SelectOperate	Variation 2	Variation 2
3458	User Data_40.SHORT_7	None	SelectOperate	Variation 2	Variation 2
3459	User Data_40.SHORT_8	None	SelectOperate	Variation 2	Variation 2
3460	User Data_40.SHORT_9	None	SelectOperate	Variation 2	Variation 2
3461	User Data_40.SHORT_10	None	SelectOperate	Variation 2	Variation 2
3462	User Data_40.BYTE_1	None	SelectOperate	Variation 2	Variation 2
3463	User Data_40.BYTE_2	None	SelectOperate	Variation 2	Variation 2
3464	User Data_40.BYTE_3	None	SelectOperate	Variation 2	Variation 2
3465	User Data_40.BYTE_4	None	SelectOperate	Variation 2	Variation 2
3466	User Data_40.BYTE_5	None	SelectOperate	Variation 2	Variation 2
3467	User Data_40.BYTE_6	None	SelectOperate	Variation 2	Variation 2
3468	User Data_40.BYTE_7	None	SelectOperate	Variation 2	Variation 2
3469	User Data_40.BYTE_8	None	SelectOperate	Variation 2	Variation 2
3470	User Data_40.BYTE_9	None	SelectOperate	Variation 2	Variation 2
3471	User Data_40.BYTE_10	None	SelectOperate	Variation 2	Variation 2
3472	User Data_41.FLOAT_1	None	SelectOperate	Variation 3	Variation 3

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3473	User Data_41.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
3474	User Data_41.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
3475	User Data_41.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
3476	User Data_41.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
3477	User Data_41.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
3478	User Data_41.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
3479	User Data_41.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
3480	User Data_41.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
3481	User Data_41.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
3482	User Data_41.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
3483	User Data_41.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
3484	User Data_41.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
3485	User Data_41.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
3486	User Data_41.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
3487	User Data_41.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
3488	User Data_41.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
3489	User Data_41.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
3490	User Data_41.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
3491	User Data_41.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
3492	User Data_41.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
3493	User Data_41.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
3494	User Data_41.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
3495	User Data_41.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
3496	User Data_41.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
3497	User Data_41.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
3498	User Data_41.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
3499	User Data_41.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
3500	User Data_41.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
3501	User Data_41.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
3502	User Data_41.LONG_1	None	SelectOperate	Variation 1	Variation 1
3503	User Data_41.LONG_2	None	SelectOperate	Variation 1	Variation 1
3504	User Data_41.LONG_3	None	SelectOperate	Variation 1	Variation 1

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
3505	User Data_41.LONG_4	None	SelectOperate	Variation 1	Variation 1
3506	User Data_41.LONG_5	None	SelectOperate	Variation 1	Variation 1
3507	User Data_41.LONG_6	None	SelectOperate	Variation 1	Variation 1
3508	User Data_41.LONG_7	None	SelectOperate	Variation 1	Variation 1
3509	User Data_41.LONG_8	None	SelectOperate	Variation 1	Variation 1
3510	User Data_41.LONG_9	None	SelectOperate	Variation 1	Variation 1
3511	User Data_41.LONG_10	None	SelectOperate	Variation 1	Variation 1
3512	User Data_41.SHORT_1	None	SelectOperate	Variation 2	Variation 2
3513	User Data_41.SHORT_2	None	SelectOperate	Variation 2	Variation 2
3514	User Data_41.SHORT_3	None	SelectOperate	Variation 2	Variation 2
3515	User Data_41.SHORT_4	None	SelectOperate	Variation 2	Variation 2
3516	User Data_41.SHORT_5	None	SelectOperate	Variation 2	Variation 2
3517	User Data_41.SHORT_6	None	SelectOperate	Variation 2	Variation 2
3518	User Data_41.SHORT_7	None	SelectOperate	Variation 2	Variation 2
3519	User Data_41.SHORT_8	None	SelectOperate	Variation 2	Variation 2
3520	User Data_41.SHORT_9	None	SelectOperate	Variation 2	Variation 2
3521	User Data_41.SHORT_10	None	SelectOperate	Variation 2	Variation 2
3522	User Data_41.BYTE_1	None	SelectOperate	Variation 2	Variation 2
3523	User Data_41.BYTE_2	None	SelectOperate	Variation 2	Variation 2
3524	User Data_41.BYTE_3	None	SelectOperate	Variation 2	Variation 2
3525	User Data_41.BYTE_4	None	SelectOperate	Variation 2	Variation 2
3526	User Data_41.BYTE_5	None	SelectOperate	Variation 2	Variation 2
3527	User Data_41.BYTE_6	None	SelectOperate	Variation 2	Variation 2
3528	User Data_41.BYTE_7	None	SelectOperate	Variation 2	Variation 2
3529	User Data_41.BYTE_8	None	SelectOperate	Variation 2	Variation 2
3530	User Data_41.BYTE_9	None	SelectOperate	Variation 2	Variation 2
3531	User Data_41.BYTE_10	None	SelectOperate	Variation 2	Variation 2
3532	User Data_42.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
3533	User Data_42.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
3534	User Data_42.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
3535	User Data_42.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
3536	User Data_42.FLOAT_5	None	SelectOperate	Variation 3	Variation 3

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3537	User Data_42.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
3538	User Data_42.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
3539	User Data_42.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
3540	User Data_42.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
3541	User Data_42.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
3542	User Data_42.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
3543	User Data_42.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
3544	User Data_42.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
3545	User Data_42.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
3546	User Data_42.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
3547	User Data_42.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
3548	User Data_42.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
3549	User Data_42.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
3550	User Data_42.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
3551	User Data_42.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
3552	User Data_42.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
3553	User Data_42.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
3554	User Data_42.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
3555	User Data_42.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
3556	User Data_42.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
3557	User Data_42.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
3558	User Data_42.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
3559	User Data_42.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
3560	User Data_42.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
3561	User Data_42.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
3562	User Data_42.LONG_1	None	SelectOperate	Variation 1	Variation 1
3563	User Data_42.LONG_2	None	SelectOperate	Variation 1	Variation 1
3564	User Data_42.LONG_3	None	SelectOperate	Variation 1	Variation 1
3565	User Data_42.LONG_4	None	SelectOperate	Variation 1	Variation 1
3566	User Data_42.LONG_5	None	SelectOperate	Variation 1	Variation 1
3567	User Data_42.LONG_6	None	SelectOperate	Variation 1	Variation 1
3568	User Data_42.LONG_7	None	SelectOperate	Variation 1	Variation 1

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
3569	User Data_42.LONG_8	None	SelectOperate	Variation 1	Variation 1
3570	User Data_42.LONG_9	None	SelectOperate	Variation 1	Variation 1
3571	User Data_42.LONG_10	None	SelectOperate	Variation 1	Variation 1
3572	User Data_42.SHORT_1	None	SelectOperate	Variation 2	Variation 2
3573	User Data_42.SHORT_2	None	SelectOperate	Variation 2	Variation 2
3574	User Data_42.SHORT_3	None	SelectOperate	Variation 2	Variation 2
3575	User Data_42.SHORT_4	None	SelectOperate	Variation 2	Variation 2
3576	User Data_42.SHORT_5	None	SelectOperate	Variation 2	Variation 2
3577	User Data_42.SHORT_6	None	SelectOperate	Variation 2	Variation 2
3578	User Data_42.SHORT_7	None	SelectOperate	Variation 2	Variation 2
3579	User Data_42.SHORT_8	None	SelectOperate	Variation 2	Variation 2
3580	User Data_42.SHORT_9	None	SelectOperate	Variation 2	Variation 2
3581	User Data_42.SHORT_10	None	SelectOperate	Variation 2	Variation 2
3582	User Data_42.BYTE_1	None	SelectOperate	Variation 2	Variation 2
3583	User Data_42.BYTE_2	None	SelectOperate	Variation 2	Variation 2
3584	User Data_42.BYTE_3	None	SelectOperate	Variation 2	Variation 2
3585	User Data_42.BYTE_4	None	SelectOperate	Variation 2	Variation 2
3586	User Data_42.BYTE_5	None	SelectOperate	Variation 2	Variation 2
3587	User Data_42.BYTE_6	None	SelectOperate	Variation 2	Variation 2
3588	User Data_42.BYTE_7	None	SelectOperate	Variation 2	Variation 2
3589	User Data_42.BYTE_8	None	SelectOperate	Variation 2	Variation 2
3590	User Data_42.BYTE_9	None	SelectOperate	Variation 2	Variation 2
3591	User Data_42.BYTE_10	None	SelectOperate	Variation 2	Variation 2
3592	User Data_43.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
3593	User Data_43.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
3594	User Data_43.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
3595	User Data_43.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
3596	User Data_43.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
3597	User Data_43.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
3598	User Data_43.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
3599	User Data_43.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
3600	User Data_43.FLOAT_9	None	SelectOperate	Variation 3	Variation 3

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3601	User Data_43.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
3602	User Data_43.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
3603	User Data_43.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
3604	User Data_43.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
3605	User Data_43.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
3606	User Data_43.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
3607	User Data_43.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
3608	User Data_43.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
3609	User Data_43.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
3610	User Data_43.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
3611	User Data_43.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
3612	User Data_43.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
3613	User Data_43.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
3614	User Data_43.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
3615	User Data_43.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
3616	User Data_43.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
3617	User Data_43.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
3618	User Data_43.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
3619	User Data_43.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
3620	User Data_43.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
3621	User Data_43.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
3622	User Data_43.LONG_1	None	SelectOperate	Variation 1	Variation 1
3623	User Data_43.LONG_2	None	SelectOperate	Variation 1	Variation 1
3624	User Data_43.LONG_3	None	SelectOperate	Variation 1	Variation 1
3625	User Data_43.LONG_4	None	SelectOperate	Variation 1	Variation 1
3626	User Data_43.LONG_5	None	SelectOperate	Variation 1	Variation 1
3627	User Data_43.LONG_6	None	SelectOperate	Variation 1	Variation 1
3628	User Data_43.LONG_7	None	SelectOperate	Variation 1	Variation 1
3629	User Data_43.LONG_8	None	SelectOperate	Variation 1	Variation 1
3630	User Data_43.LONG_9	None	SelectOperate	Variation 1	Variation 1
3631	User Data_43.LONG_10	None	SelectOperate	Variation 1	Variation 1
3632	User Data_43.SHORT_1	None	SelectOperate	Variation 2	Variation 2



Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
3633	User Data_43.SHORT_2	None	SelectOperate	Variation 2	Variation 2
3634	User Data_43.SHORT_3	None	SelectOperate	Variation 2	Variation 2
3635	User Data_43.SHORT_4	None	SelectOperate	Variation 2	Variation 2
3636	User Data_43.SHORT_5	None	SelectOperate	Variation 2	Variation 2
3637	User Data_43.SHORT_6	None	SelectOperate	Variation 2	Variation 2
3638	User Data_43.SHORT_7	None	SelectOperate	Variation 2	Variation 2
3639	User Data_43.SHORT_8	None	SelectOperate	Variation 2	Variation 2
3640	User Data_43.SHORT_9	None	SelectOperate	Variation 2	Variation 2
3641	User Data_43.SHORT_10	None	SelectOperate	Variation 2	Variation 2
3642	User Data_43.BYTE_1	None	SelectOperate	Variation 2	Variation 2
3643	User Data_43.BYTE_2	None	SelectOperate	Variation 2	Variation 2
3644	User Data_43.BYTE_3	None	SelectOperate	Variation 2	Variation 2
3645	User Data_43.BYTE_4	None	SelectOperate	Variation 2	Variation 2
3646	User Data_43.BYTE_5	None	SelectOperate	Variation 2	Variation 2
3647	User Data_43.BYTE_6	None	SelectOperate	Variation 2	Variation 2
3648	User Data_43.BYTE_7	None	SelectOperate	Variation 2	Variation 2
3649	User Data_43.BYTE_8	None	SelectOperate	Variation 2	Variation 2
3650	User Data_43.BYTE_9	None	SelectOperate	Variation 2	Variation 2
3651	User Data_43.BYTE_10	None	SelectOperate	Variation 2	Variation 2
3652	User Data_44.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
3653	User Data_44.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
3654	User Data_44.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
3655	User Data_44.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
3656	User Data_44.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
3657	User Data_44.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
3658	User Data_44.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
3659	User Data_44.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
3660	User Data_44.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
3661	User Data_44.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
3662	User Data_44.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
3663	User Data_44.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
3664	User Data_44.FLOAT_13	None	SelectOperate	Variation 3	Variation 3

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3665	User Data_44.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
3666	User Data_44.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
3667	User Data_44.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
3668	User Data_44.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
3669	User Data_44.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
3670	User Data_44.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
3671	User Data_44.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
3672	User Data_44.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
3673	User Data_44.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
3674	User Data_44.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
3675	User Data_44.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
3676	User Data_44.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
3677	User Data_44.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
3678	User Data_44.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
3679	User Data_44.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
3680	User Data_44.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
3681	User Data_44.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
3682	User Data_44.LONG_1	None	SelectOperate	Variation 1	Variation 1
3683	User Data_44.LONG_2	None	SelectOperate	Variation 1	Variation 1
3684	User Data_44.LONG_3	None	SelectOperate	Variation 1	Variation 1
3685	User Data_44.LONG_4	None	SelectOperate	Variation 1	Variation 1
3686	User Data_44.LONG_5	None	SelectOperate	Variation 1	Variation 1
3687	User Data_44.LONG_6	None	SelectOperate	Variation 1	Variation 1
3688	User Data_44.LONG_7	None	SelectOperate	Variation 1	Variation 1
3689	User Data_44.LONG_8	None	SelectOperate	Variation 1	Variation 1
3690	User Data_44.LONG_9	None	SelectOperate	Variation 1	Variation 1
3691	User Data_44.LONG_10	None	SelectOperate	Variation 1	Variation 1
3692	User Data_44.SHORT_1	None	SelectOperate	Variation 2	Variation 2
3693	User Data_44.SHORT_2	None	SelectOperate	Variation 2	Variation 2
3694	User Data_44.SHORT_3	None	SelectOperate	Variation 2	Variation 2
3695	User Data_44.SHORT_4	None	SelectOperate	Variation 2	Variation 2
3696	User Data_44.SHORT_5	None	SelectOperate	Variation 2	Variation 2

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
3697	User Data_44.SHORT_6	None	SelectOperate	Variation 2	Variation 2
3698	User Data_44.SHORT_7	None	SelectOperate	Variation 2	Variation 2
3699	User Data_44.SHORT_8	None	SelectOperate	Variation 2	Variation 2
3700	User Data_44.SHORT_9	None	SelectOperate	Variation 2	Variation 2
3701	User Data_44.SHORT_10	None	SelectOperate	Variation 2	Variation 2
3702	User Data_44.BYTE_1	None	SelectOperate	Variation 2	Variation 2
3703	User Data_44.BYTE_2	None	SelectOperate	Variation 2	Variation 2
3704	User Data_44.BYTE_3	None	SelectOperate	Variation 2	Variation 2
3705	User Data_44.BYTE_4	None	SelectOperate	Variation 2	Variation 2
3706	User Data_44.BYTE_5	None	SelectOperate	Variation 2	Variation 2
3707	User Data_44.BYTE_6	None	SelectOperate	Variation 2	Variation 2
3708	User Data_44.BYTE_7	None	SelectOperate	Variation 2	Variation 2
3709	User Data_44.BYTE_8	None	SelectOperate	Variation 2	Variation 2
3710	User Data_44.BYTE_9	None	SelectOperate	Variation 2	Variation 2
3711	User Data_44.BYTE_10	None	SelectOperate	Variation 2	Variation 2
3712	User Data_45.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
3713	User Data_45.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
3714	User Data_45.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
3715	User Data_45.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
3716	User Data_45.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
3717	User Data_45.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
3718	User Data_45.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
3719	User Data_45.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
3720	User Data_45.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
3721	User Data_45.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
3722	User Data_45.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
3723	User Data_45.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
3724	User Data_45.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
3725	User Data_45.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
3726	User Data_45.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
3727	User Data_45.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
3728	User Data_45.FLOAT_17	None	SelectOperate	Variation 3	Variation 3

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3729	User Data_45.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
3730	User Data_45.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
3731	User Data_45.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
3732	User Data_45.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
3733	User Data_45.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
3734	User Data_45.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
3735	User Data_45.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
3736	User Data_45.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
3737	User Data_45.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
3738	User Data_45.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
3739	User Data_45.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
3740	User Data_45.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
3741	User Data_45.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
3742	User Data_45.LONG_1	None	SelectOperate	Variation 1	Variation 1
3743	User Data_45.LONG_2	None	SelectOperate	Variation 1	Variation 1
3744	User Data_45.LONG_3	None	SelectOperate	Variation 1	Variation 1
3745	User Data_45.LONG_4	None	SelectOperate	Variation 1	Variation 1
3746	User Data_45.LONG_5	None	SelectOperate	Variation 1	Variation 1
3747	User Data_45.LONG_6	None	SelectOperate	Variation 1	Variation 1
3748	User Data_45.LONG_7	None	SelectOperate	Variation 1	Variation 1
3749	User Data_45.LONG_8	None	SelectOperate	Variation 1	Variation 1
3750	User Data_45.LONG_9	None	SelectOperate	Variation 1	Variation 1
3751	User Data_45.LONG_10	None	SelectOperate	Variation 1	Variation 1
3752	User Data_45.SHORT_1	None	SelectOperate	Variation 2	Variation 2
3753	User Data_45.SHORT_2	None	SelectOperate	Variation 2	Variation 2
3754	User Data_45.SHORT_3	None	SelectOperate	Variation 2	Variation 2
3755	User Data_45.SHORT_4	None	SelectOperate	Variation 2	Variation 2
3756	User Data_45.SHORT_5	None	SelectOperate	Variation 2	Variation 2
3757	User Data_45.SHORT_6	None	SelectOperate	Variation 2	Variation 2
3758	User Data_45.SHORT_7	None	SelectOperate	Variation 2	Variation 2
3759	User Data_45.SHORT_8	None	SelectOperate	Variation 2	Variation 2
3760	User Data_45.SHORT_9	None	SelectOperate	Variation 2	Variation 2

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
3761	User Data_45.SHORT_10	None	SelectOperate	Variation 2	Variation 2
3762	User Data_45.BYTE_1	None	SelectOperate	Variation 2	Variation 2
3763	User Data_45.BYTE_2	None	SelectOperate	Variation 2	Variation 2
3764	User Data_45.BYTE_3	None	SelectOperate	Variation 2	Variation 2
3765	User Data_45.BYTE_4	None	SelectOperate	Variation 2	Variation 2
3766	User Data_45.BYTE_5	None	SelectOperate	Variation 2	Variation 2
3767	User Data_45.BYTE_6	None	SelectOperate	Variation 2	Variation 2
3768	User Data_45.BYTE_7	None	SelectOperate	Variation 2	Variation 2
3769	User Data_45.BYTE_8	None	SelectOperate	Variation 2	Variation 2
3770	User Data_45.BYTE_9	None	SelectOperate	Variation 2	Variation 2
3771	User Data_45.BYTE_10	None	SelectOperate	Variation 2	Variation 2
3772	User Data_46.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
3773	User Data_46.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
3774	User Data_46.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
3775	User Data_46.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
3776	User Data_46.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
3777	User Data_46.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
3778	User Data_46.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
3779	User Data_46.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
3780	User Data_46.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
3781	User Data_46.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
3782	User Data_46.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
3783	User Data_46.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
3784	User Data_46.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
3785	User Data_46.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
3786	User Data_46.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
3787	User Data_46.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
3788	User Data_46.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
3789	User Data_46.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
3790	User Data_46.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
3791	User Data_46.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
3792	User Data_46.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4

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Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
3793	User Data_46.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
3794	User Data_46.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
3795	User Data_46.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
3796	User Data_46.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
3797	User Data_46.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
3798	User Data_46.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
3799	User Data_46.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
3800	User Data_46.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
3801	User Data_46.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
3802	User Data_46.LONG_1	None	SelectOperate	Variation 1	Variation 1
3803	User Data_46.LONG_2	None	SelectOperate	Variation 1	Variation 1
3804	User Data_46.LONG_3	None	SelectOperate	Variation 1	Variation 1
3805	User Data_46.LONG_4	None	SelectOperate	Variation 1	Variation 1
3806	User Data_46.LONG_5	None	SelectOperate	Variation 1	Variation 1
3807	User Data_46.LONG_6	None	SelectOperate	Variation 1	Variation 1
3808	User Data_46.LONG_7	None	SelectOperate	Variation 1	Variation 1
3809	User Data_46.LONG_8	None	SelectOperate	Variation 1	Variation 1
3810	User Data_46.LONG_9	None	SelectOperate	Variation 1	Variation 1
3811	User Data_46.LONG_10	None	SelectOperate	Variation 1	Variation 1
3812	User Data_46.SHORT_1	None	SelectOperate	Variation 2	Variation 2
3813	User Data_46.SHORT_2	None	SelectOperate	Variation 2	Variation 2
3814	User Data_46.SHORT_3	None	SelectOperate	Variation 2	Variation 2
3815	User Data_46.SHORT_4	None	SelectOperate	Variation 2	Variation 2
3816	User Data_46.SHORT_5	None	SelectOperate	Variation 2	Variation 2
3817	User Data_46.SHORT_6	None	SelectOperate	Variation 2	Variation 2
3818	User Data_46.SHORT_7	None	SelectOperate	Variation 2	Variation 2
3819	User Data_46.SHORT_8	None	SelectOperate	Variation 2	Variation 2
3820	User Data_46.SHORT_9	None	SelectOperate	Variation 2	Variation 2
3821	User Data_46.SHORT_10	None	SelectOperate	Variation 2	Variation 2
3822	User Data_46.BYTE_1	None	SelectOperate	Variation 2	Variation 2
3823	User Data_46.BYTE_2	None	SelectOperate	Variation 2	Variation 2
3824	User Data_46.BYTE_3	None	SelectOperate	Variation 2	Variation 2

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
3825	User Data_46.BYTE_4	None	SelectOperate	Variation 2	Variation 2
3826	User Data_46.BYTE_5	None	SelectOperate	Variation 2	Variation 2
3827	User Data_46.BYTE_6	None	SelectOperate	Variation 2	Variation 2
3828	User Data_46.BYTE_7	None	SelectOperate	Variation 2	Variation 2
3829	User Data_46.BYTE_8	None	SelectOperate	Variation 2	Variation 2
3830	User Data_46.BYTE_9	None	SelectOperate	Variation 2	Variation 2
3831	User Data_46.BYTE_10	None	SelectOperate	Variation 2	Variation 2
3832	User Data_47.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
3833	User Data_47.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
3834	User Data_47.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
3835	User Data_47.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
3836	User Data_47.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
3837	User Data_47.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
3838	User Data_47.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
3839	User Data_47.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
3840	User Data_47.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
3841	User Data_47.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
3842	User Data_47.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
3843	User Data_47.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
3844	User Data_47.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
3845	User Data_47.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
3846	User Data_47.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
3847	User Data_47.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
3848	User Data_47.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
3849	User Data_47.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
3850	User Data_47.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
3851	User Data_47.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
3852	User Data_47.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
3853	User Data_47.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
3854	User Data_47.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
3855	User Data_47.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
3856	User Data_47.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4

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3857	User Data_47.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
3858	User Data_47.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
3859	User Data_47.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
3860	User Data_47.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
3861	User Data_47.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
3862	User Data_47.LONG_1	None	SelectOperate	Variation 1	Variation 1
3863	User Data_47.LONG_2	None	SelectOperate	Variation 1	Variation 1
3864	User Data_47.LONG_3	None	SelectOperate	Variation 1	Variation 1
3865	User Data_47.LONG_4	None	SelectOperate	Variation 1	Variation 1
3866	User Data_47.LONG_5	None	SelectOperate	Variation 1	Variation 1
3867	User Data_47.LONG_6	None	SelectOperate	Variation 1	Variation 1
3868	User Data_47.LONG_7	None	SelectOperate	Variation 1	Variation 1
3869	User Data_47.LONG_8	None	SelectOperate	Variation 1	Variation 1
3870	User Data_47.LONG_9	None	SelectOperate	Variation 1	Variation 1
3871	User Data_47.LONG_10	None	SelectOperate	Variation 1	Variation 1
3872	User Data_47.SHORT_1	None	SelectOperate	Variation 2	Variation 2
3873	User Data_47.SHORT_2	None	SelectOperate	Variation 2	Variation 2
3874	User Data_47.SHORT_3	None	SelectOperate	Variation 2	Variation 2
3875	User Data_47.SHORT_4	None	SelectOperate	Variation 2	Variation 2
3876	User Data_47.SHORT_5	None	SelectOperate	Variation 2	Variation 2
3877	User Data_47.SHORT_6	None	SelectOperate	Variation 2	Variation 2
3878	User Data_47.SHORT_7	None	SelectOperate	Variation 2	Variation 2
3879	User Data_47.SHORT_8	None	SelectOperate	Variation 2	Variation 2
3880	User Data_47.SHORT_9	None	SelectOperate	Variation 2	Variation 2
3881	User Data_47.SHORT_10	None	SelectOperate	Variation 2	Variation 2
3882	User Data_47.BYTE_1	None	SelectOperate	Variation 2	Variation 2
3883	User Data_47.BYTE_2	None	SelectOperate	Variation 2	Variation 2
3884	User Data_47.BYTE_3	None	SelectOperate	Variation 2	Variation 2
3885	User Data_47.BYTE_4	None	SelectOperate	Variation 2	Variation 2
3886	User Data_47.BYTE_5	None	SelectOperate	Variation 2	Variation 2
3887	User Data_47.BYTE_6	None	SelectOperate	Variation 2	Variation 2
3888	User Data_47.BYTE_7	None	SelectOperate	Variation 2	Variation 2



Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
3889	User Data_47.BYTE_8	None	SelectOperate	Variation 2	Variation 2
3890	User Data_47.BYTE_9	None	SelectOperate	Variation 2	Variation 2
3891	User Data_47.BYTE_10	None	SelectOperate	Variation 2	Variation 2
3892	User Data_48.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
3893	User Data_48.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
3894	User Data_48.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
3895	User Data_48.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
3896	User Data_48.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
3897	User Data_48.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
3898	User Data_48.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
3899	User Data_48.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
3900	User Data_48.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
3901	User Data_48.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
3902	User Data_48.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
3903	User Data_48.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
3904	User Data_48.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
3905	User Data_48.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
3906	User Data_48.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
3907	User Data_48.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
3908	User Data_48.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
3909	User Data_48.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
3910	User Data_48.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
3911	User Data_48.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
3912	User Data_48.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
3913	User Data_48.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
3914	User Data_48.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
3915	User Data_48.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
3916	User Data_48.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
3917	User Data_48.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
3918	User Data_48.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
3919	User Data_48.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
3920	User Data_48.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4

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3921	User Data_48.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
3922	User Data_48.LONG_1	None	SelectOperate	Variation 1	Variation 1
3923	User Data_48.LONG_2	None	SelectOperate	Variation 1	Variation 1
3924	User Data_48.LONG_3	None	SelectOperate	Variation 1	Variation 1
3925	User Data_48.LONG_4	None	SelectOperate	Variation 1	Variation 1
3926	User Data_48.LONG_5	None	SelectOperate	Variation 1	Variation 1
3927	User Data_48.LONG_6	None	SelectOperate	Variation 1	Variation 1
3928	User Data_48.LONG_7	None	SelectOperate	Variation 1	Variation 1
3929	User Data_48.LONG_8	None	SelectOperate	Variation 1	Variation 1
3930	User Data_48.LONG_9	None	SelectOperate	Variation 1	Variation 1
3931	User Data_48.LONG_10	None	SelectOperate	Variation 1	Variation 1
3932	User Data_48.SHORT_1	None	SelectOperate	Variation 2	Variation 2
3933	User Data_48.SHORT_2	None	SelectOperate	Variation 2	Variation 2
3934	User Data_48.SHORT_3	None	SelectOperate	Variation 2	Variation 2
3935	User Data_48.SHORT_4	None	SelectOperate	Variation 2	Variation 2
3936	User Data_48.SHORT_5	None	SelectOperate	Variation 2	Variation 2
3937	User Data_48.SHORT_6	None	SelectOperate	Variation 2	Variation 2
3938	User Data_48.SHORT_7	None	SelectOperate	Variation 2	Variation 2
3939	User Data_48.SHORT_8	None	SelectOperate	Variation 2	Variation 2
3940	User Data_48.SHORT_9	None	SelectOperate	Variation 2	Variation 2
3941	User Data_48.SHORT_10	None	SelectOperate	Variation 2	Variation 2
3942	User Data_48.BYTE_1	None	SelectOperate	Variation 2	Variation 2
3943	User Data_48.BYTE_2	None	SelectOperate	Variation 2	Variation 2
3944	User Data_48.BYTE_3	None	SelectOperate	Variation 2	Variation 2
3945	User Data_48.BYTE_4	None	SelectOperate	Variation 2	Variation 2
3946	User Data_48.BYTE_5	None	SelectOperate	Variation 2	Variation 2
3947	User Data_48.BYTE_6	None	SelectOperate	Variation 2	Variation 2
3948	User Data_48.BYTE_7	None	SelectOperate	Variation 2	Variation 2
3949	User Data_48.BYTE_8	None	SelectOperate	Variation 2	Variation 2
3950	User Data_48.BYTE_9	None	SelectOperate	Variation 2	Variation 2
3951	User Data_48.BYTE_10	None	SelectOperate	Variation 2	Variation 2
3952	User Data_49.FLOAT_1	None	SelectOperate	Variation 3	Variation 3

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
3953	User Data_49.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
3954	User Data_49.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
3955	User Data_49.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
3956	User Data_49.FLOAT_5	None	SelectOperate	Variation 3	Variation 3
3957	User Data_49.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
3958	User Data_49.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
3959	User Data_49.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
3960	User Data_49.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
3961	User Data_49.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
3962	User Data_49.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
3963	User Data_49.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
3964	User Data_49.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
3965	User Data_49.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
3966	User Data_49.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
3967	User Data_49.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
3968	User Data_49.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
3969	User Data_49.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
3970	User Data_49.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
3971	User Data_49.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
3972	User Data_49.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
3973	User Data_49.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
3974	User Data_49.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
3975	User Data_49.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
3976	User Data_49.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
3977	User Data_49.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
3978	User Data_49.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
3979	User Data_49.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
3980	User Data_49.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
3981	User Data_49.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
3982	User Data_49.LONG_1	None	SelectOperate	Variation 1	Variation 1
3983	User Data_49.LONG_2	None	SelectOperate	Variation 1	Variation 1
3984	User Data_49.LONG_3	None	SelectOperate	Variation 1	Variation 1

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3985	User Data_49.LONG_4	None	SelectOperate	Variation 1	Variation 1
3986	User Data_49.LONG_5	None	SelectOperate	Variation 1	Variation 1
3987	User Data_49.LONG_6	None	SelectOperate	Variation 1	Variation 1
3988	User Data_49.LONG_7	None	SelectOperate	Variation 1	Variation 1
3989	User Data_49.LONG_8	None	SelectOperate	Variation 1	Variation 1
3990	User Data_49.LONG_9	None	SelectOperate	Variation 1	Variation 1
3991	User Data_49.LONG_10	None	SelectOperate	Variation 1	Variation 1
3992	User Data_49.SHORT_1	None	SelectOperate	Variation 2	Variation 2
3993	User Data_49.SHORT_2	None	SelectOperate	Variation 2	Variation 2
3994	User Data_49.SHORT_3	None	SelectOperate	Variation 2	Variation 2
3995	User Data_49.SHORT_4	None	SelectOperate	Variation 2	Variation 2
3996	User Data_49.SHORT_5	None	SelectOperate	Variation 2	Variation 2
3997	User Data_49.SHORT_6	None	SelectOperate	Variation 2	Variation 2
3998	User Data_49.SHORT_7	None	SelectOperate	Variation 2	Variation 2
3999	User Data_49.SHORT_8	None	SelectOperate	Variation 2	Variation 2
4000	User Data_49.SHORT_9	None	SelectOperate	Variation 2	Variation 2
4001	User Data_49.SHORT_10	None	SelectOperate	Variation 2	Variation 2
4002	User Data_49.BYTE_1	None	SelectOperate	Variation 2	Variation 2
4003	User Data_49.BYTE_2	None	SelectOperate	Variation 2	Variation 2
4004	User Data_49.BYTE_3	None	SelectOperate	Variation 2	Variation 2
4005	User Data_49.BYTE_4	None	SelectOperate	Variation 2	Variation 2
4006	User Data_49.BYTE_5	None	SelectOperate	Variation 2	Variation 2
4007	User Data_49.BYTE_6	None	SelectOperate	Variation 2	Variation 2
4008	User Data_49.BYTE_7	None	SelectOperate	Variation 2	Variation 2
4009	User Data_49.BYTE_8	None	SelectOperate	Variation 2	Variation 2
4010	User Data_49.BYTE_9	None	SelectOperate	Variation 2	Variation 2
4011	User Data_49.BYTE_10	None	SelectOperate	Variation 2	Variation 2
4012	User Data_50.FLOAT_1	None	SelectOperate	Variation 3	Variation 3
4013	User Data_50.FLOAT_2	None	SelectOperate	Variation 3	Variation 3
4014	User Data_50.FLOAT_3	None	SelectOperate	Variation 3	Variation 3
4015	User Data_50.FLOAT_4	None	SelectOperate	Variation 3	Variation 3
4016	User Data_50.FLOAT_5	None	SelectOperate	Variation 3	Variation 3

Point Index	Tag Mapped	Default Class	Supported Control Operations	Group 20 Default Variation	Group 22 Default Variation
4017	User Data_50.FLOAT_6	None	SelectOperate	Variation 3	Variation 3
4018	User Data_50.FLOAT_7	None	SelectOperate	Variation 3	Variation 3
4019	User Data_50.FLOAT_8	None	SelectOperate	Variation 3	Variation 3
4020	User Data_50.FLOAT_9	None	SelectOperate	Variation 3	Variation 3
4021	User Data_50.FLOAT_10	None	SelectOperate	Variation 3	Variation 3
4022	User Data_50.FLOAT_11	None	SelectOperate	Variation 3	Variation 3
4023	User Data_50.FLOAT_12	None	SelectOperate	Variation 3	Variation 3
4024	User Data_50.FLOAT_13	None	SelectOperate	Variation 3	Variation 3
4025	User Data_50.FLOAT_14	None	SelectOperate	Variation 3	Variation 3
4026	User Data_50.FLOAT_15	None	SelectOperate	Variation 3	Variation 3
4027	User Data_50.FLOAT_16	None	SelectOperate	Variation 3	Variation 3
4028	User Data_50.FLOAT_17	None	SelectOperate	Variation 3	Variation 3
4029	User Data_50.FLOAT_18	None	SelectOperate	Variation 3	Variation 3
4030	User Data_50.FLOAT_19	None	SelectOperate	Variation 3	Variation 3
4031	User Data_50.FLOAT_20	None	SelectOperate	Variation 3	Variation 3
4032	User Data_50.DOUBLE_1	None	SelectOperate	Variation 4	Variation 4
4033	User Data_50.DOUBLE_2	None	SelectOperate	Variation 4	Variation 4
4034	User Data_50.DOUBLE_3	None	SelectOperate	Variation 4	Variation 4
4035	User Data_50.DOUBLE_4	None	SelectOperate	Variation 4	Variation 4
4036	User Data_50.DOUBLE_5	None	SelectOperate	Variation 4	Variation 4
4037	User Data_50.DOUBLE_6	None	SelectOperate	Variation 4	Variation 4
4038	User Data_50.DOUBLE_7	None	SelectOperate	Variation 4	Variation 4
4039	User Data_50.DOUBLE_8	None	SelectOperate	Variation 4	Variation 4
4040	User Data_50.DOUBLE_9	None	SelectOperate	Variation 4	Variation 4
4041	User Data_50.DOUBLE_10	None	SelectOperate	Variation 4	Variation 4
4042	User Data_50.LONG_1	None	SelectOperate	Variation 1	Variation 1
4043	User Data_50.LONG_2	None	SelectOperate	Variation 1	Variation 1
4044	User Data_50.LONG_3	None	SelectOperate	Variation 1	Variation 1
4045	User Data_50.LONG_4	None	SelectOperate	Variation 1	Variation 1
4046	User Data_50.LONG_5	None	SelectOperate	Variation 1	Variation 1
4047	User Data_50.LONG_6	None	SelectOperate	Variation 1	Variation 1
4048	User Data_50.LONG_7	None	SelectOperate	Variation 1	Variation 1

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4049	User Data_50.LONG_8	None	SelectOperate	Variation 1	Variation 1
4050	User Data_50.LONG_9	None	SelectOperate	Variation 1	Variation 1
4051	User Data_50.LONG_10	None	SelectOperate	Variation 1	Variation 1
4052	User Data_50.SHORT_1	None	SelectOperate	Variation 2	Variation 2
4053	User Data_50.SHORT_2	None	SelectOperate	Variation 2	Variation 2
4054	User Data_50.SHORT_3	None	SelectOperate	Variation 2	Variation 2
4055	User Data_50.SHORT_4	None	SelectOperate	Variation 2	Variation 2
4056	User Data_50.SHORT_5	None	SelectOperate	Variation 2	Variation 2
4057	User Data_50.SHORT_6	None	SelectOperate	Variation 2	Variation 2
4058	User Data_50.SHORT_7	None	SelectOperate	Variation 2	Variation 2
4059	User Data_50.SHORT_8	None	SelectOperate	Variation 2	Variation 2
4060	User Data_50.SHORT_9	None	SelectOperate	Variation 2	Variation 2
4061	User Data_50.SHORT_10	None	SelectOperate	Variation 2	Variation 2
4062	User Data_50.BYTE_1	None	SelectOperate	Variation 2	Variation 2
4063	User Data_50.BYTE_2	None	SelectOperate	Variation 2	Variation 2
4064	User Data_50.BYTE_3	None	SelectOperate	Variation 2	Variation 2
4065	User Data_50.BYTE_4	None	SelectOperate	Variation 2	Variation 2
4066	User Data_50.BYTE_5	None	SelectOperate	Variation 2	Variation 2
4067	User Data_50.BYTE_6	None	SelectOperate	Variation 2	Variation 2
4068	User Data_50.BYTE_7	None	SelectOperate	Variation 2	Variation 2
4069	User Data_50.BYTE_8	None	SelectOperate	Variation 2	Variation 2
4070	User Data_50.BYTE_9	None	SelectOperate	Variation 2	Variation 2
4071	User Data_50.BYTE_10	None	SelectOperate	Variation 2	Variation 2

## 4.9 Strings: DNP3 Object Group 110 (Static)

### 4.9.1 DNP3 Object Group 110: Octet Strings (Static)

This group can be read with all variations.

Point Index	Tag Mapped	Default Class Assigned
0	RESERVED	Class_None
1	System_1.PROD_DESC	Class_None
2	System_1.SITE_NAME	Class_None
3	Module_1.APP_VER	Class_None
4	Module_1.BOOT_VER	Class_None
5	Module_1.IFS_VER	Class_None
6	DP Mtr_1.DESC	Class_None
7	DP Mtr_1.STATION_OBJ	Class_None
8	DP Mtr_2.DESC	Class_None
9	DP Mtr_2.STATION_OBJ	Class_None
10	DP Mtr_3.DESC	Class_None
11	DP Mtr_3.STATION_OBJ	Class_None
12	DP Mtr_4.DESC	Class_None
13	DP Mtr_4.STATION_OBJ	Class_None
14	DP Mtr_5.DESC	Class_None
15	DP Mtr_5.STATION_OBJ	Class_None
16	DP Mtr_6.DESC	Class_None
17	DP Mtr_6.STATION_OBJ	Class_None
18	DP Mtr_7.DESC	Class_None
19	DP Mtr_7.STATION_OBJ	Class_None
20	DP Mtr_8.DESC	Class_None
21	DP Mtr_8.STATION_OBJ	Class_None
22	DP Mtr_9.DESC	Class_None
23	DP Mtr_9.STATION_OBJ	Class_None
24	DP Mtr_10.DESC	Class_None
25	DP Mtr_10.STATION_OBJ	Class_None
26	DP Mtr_11.DESC	Class_None
27	DP Mtr_11.STATION_OBJ	Class_None
28	DP Mtr_12.DESC	Class_None
29	DP Mtr_12.STATION_OBJ	Class_None

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Point Index	Tag Mapped	Default Class Assigned
30	DP Mtr_13.DESC	Class_None
31	DP Mtr_13.STATION_OBJ	Class_None
32	DP Mtr_14.DESC	Class_None
33	DP Mtr_14.STATION_OBJ	Class_None
34	DP Mtr_15.DESC	Class_None
35	DP Mtr_15.STATION_OBJ	Class_None
36	DP Mtr_16.DESC	Class_None
37	DP Mtr_16.STATION_OBJ	Class_None
38	DP Mtr_17.DESC	Class_None
39	DP Mtr_17.STATION_OBJ	Class_None
40	DP Mtr_18.DESC	Class_None
41	DP Mtr_18.STATION_OBJ	Class_None
42	DP Mtr_19.DESC	Class_None
43	DP Mtr_19.STATION_OBJ	Class_None
44	DP Mtr_20.DESC	Class_None
45	DP Mtr_20.STATION_OBJ	Class_None
46	DP Mtr_21.DESC	Class_None
47	DP Mtr_21.STATION_OBJ	Class_None
48	DP Mtr_22.DESC	Class_None
49	DP Mtr_22.STATION_OBJ	Class_None
50	DP Mtr_23.DESC	Class_None
51	DP Mtr_23.STATION_OBJ	Class_None
52	DP Mtr_24.DESC	Class_None
53	DP Mtr_24.STATION_OBJ	Class_None
54	Linear Mtr_1.DESC	Class_None
55	Linear Mtr_1.STATION_OBJ	Class_None
56	Linear Mtr_2.DESC	Class_None
57	Linear Mtr_2.STATION_OBJ	Class_None
58	Linear Mtr_3.DESC	Class_None
59	Linear Mtr_3.STATION_OBJ	Class_None
60	Linear Mtr_4.DESC	Class_None
61	Linear Mtr_4.STATION_OBJ	Class_None
62	Linear Mtr_5.DESC	Class_None
63	Linear Mtr_5.STATION_OBJ	Class_None



Point Index	Tag Mapped	Default Class Assigned
64	Linear Mtr_6.DESC	Class_None
65	Linear Mtr_6.STATION_OBJ	Class_None
66	Linear Mtr_7.DESC	Class_None
67	Linear Mtr_7.STATION_OBJ	Class_None
68	Linear Mtr_8.DESC	Class_None
69	Linear Mtr_8.STATION_OBJ	Class_None
70	Linear Mtr_9.DESC	Class_None
71	Linear Mtr_9.STATION_OBJ	Class_None
72	Linear Mtr_10.DESC	Class_None
73	Linear Mtr_10.STATION_OBJ	Class_None
74	Linear Mtr_11.DESC	Class_None
75	Linear Mtr_11.STATION_OBJ	Class_None
76	Linear Mtr_12.DESC	Class_None
77	Linear Mtr_12.STATION_OBJ	Class_None
78	Linear Mtr_13.DESC	Class_None
79	Linear Mtr_13.STATION_OBJ	Class_None
80	Linear Mtr_14.DESC	Class_None
81	Linear Mtr_14.STATION_OBJ	Class_None
82	Linear Mtr_15.DESC	Class_None
83	Linear Mtr_15.STATION_OBJ	Class_None
84	Linear Mtr_16.DESC	Class_None
85	Linear Mtr_16.STATION_OBJ	Class_None
86	Linear Mtr_17.DESC	Class_None
87	Linear Mtr_17.STATION_OBJ	Class_None
88	Linear Mtr_18.DESC	Class_None
89	Linear Mtr_18.STATION_OBJ	Class_None
90	Linear Mtr_19.DESC	Class_None
91	Linear Mtr_19.STATION_OBJ	Class_None
92	Linear Mtr_20.DESC	Class_None
93	Linear Mtr_20.STATION_OBJ	Class_None
94	Linear Mtr_21.DESC	Class_None
95	Linear Mtr_21.STATION_OBJ	Class_None
96	Linear Mtr_22.DESC	Class_None
97	Linear Mtr_22.STATION_OBJ	Class_None

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Point Index	Tag Mapped	Default Class Assigned
98	Linear Mtr_23.DESC	Class_None
99	Linear Mtr_23.STATION_OBJ	Class_None
100	Linear Mtr_24.DESC	Class_None
101	Linear Mtr_24.STATION_OBJ	Class_None
102	Liq LinMtr_1.DESC	Class_None
103	Liq LinMtr_1.STATION_OBJ	Class_None
104	Liq LinMtr_2.DESC	Class_None
105	Liq LinMtr_2.STATION_OBJ	Class_None
106	Liq LinMtr_3.DESC	Class_None
107	Liq LinMtr_3.STATION_OBJ	Class_None
108	Liq LinMtr_4.DESC	Class_None
109	Liq LinMtr_4.STATION_OBJ	Class_None
110	Liq LinMtr_5.DESC	Class_None
111	Liq LinMtr_5.STATION_OBJ	Class_None
112	Liq LinMtr_6.DESC	Class_None
113	Liq LinMtr_6.STATION_OBJ	Class_None
114	Liq LinMtr_7.DESC	Class_None
115	Liq LinMtr_7.STATION_OBJ	Class_None
116	Liq LinMtr_8.DESC	Class_None
117	Liq LinMtr_8.STATION_OBJ	Class_None
118	Liq LinMtr_9.DESC	Class_None
119	Liq LinMtr_9.STATION_OBJ	Class_None
120	Liq LinMtr_10.DESC	Class_None
121	Liq LinMtr_10.STATION_OBJ	Class_None
122	Liq LinMtr_11.DESC	Class_None
123	Liq LinMtr_11.STATION_OBJ	Class_None
124	Liq LinMtr_12.DESC	Class_None
125	Liq LinMtr_12.STATION_OBJ	Class_None
126	Liq LinMtr_13.DESC	Class_None
127	Liq LinMtr_13.STATION_OBJ	Class_None
128	Liq LinMtr_14.DESC	Class_None
129	Liq LinMtr_14.STATION_OBJ	Class_None
130	Liq LinMtr_15.DESC	Class_None
131	Liq LinMtr_15.STATION_OBJ	Class_None

Point Index	Tag Mapped	Default Class Assigned
132	Liq LinMtr_16.DESC	Class_None
133	Liq LinMtr_16.STATION_OBJ	Class_None
134	Liq LinMtr_17.DESC	Class_None
135	Liq LinMtr_17.STATION_OBJ	Class_None
136	Liq LinMtr_18.DESC	Class_None
137	Liq LinMtr_18.STATION_OBJ	Class_None
138	Liq LinMtr_19.DESC	Class_None
139	Liq LinMtr_19.STATION_OBJ	Class_None
140	Liq LinMtr_20.DESC	Class_None
141	Liq LinMtr_20.STATION_OBJ	Class_None
142	Liq LinMtr_21.DESC	Class_None
143	Liq LinMtr_21.STATION_OBJ	Class_None
144	Liq LinMtr_22.DESC	Class_None
145	Liq LinMtr_22.STATION_OBJ	Class_None
146	Liq LinMtr_23.DESC	Class_None
147	Liq LinMtr_23.STATION_OBJ	Class_None
148	Liq LinMtr_24.DESC	Class_None
149	Liq LinMtr_24.STATION_OBJ	Class_None
150	Station_1.DESC	Class_None
151	Station_2.DESC	Class_None
152	Station_3.DESC	Class_None
153	Station_4.DESC	Class_None
154	Station_5.DESC	Class_None
155	Station_6.DESC	Class_None
156	Station_7.DESC	Class_None
157	Station_8.DESC	Class_None
158	Station_9.DESC	Class_None
159	Station_10.DESC	Class_None
160	Station_11.DESC	Class_None
161	Station_12.DESC	Class_None
162	Station_13.DESC	Class_None
163	Station_14.DESC	Class_None
164	Station_15.DESC	Class_None
165	Station_16.DESC	Class_None

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Point Index	Tag Mapped	Default Class Assigned
166	Station_17.DESC	Class_None
167	Station_18.DESC	Class_None
168	Station_19.DESC	Class_None
169	Station_20.DESC	Class_None
170	Station_21.DESC	Class_None
171	Station_22.DESC	Class_None
172	Station_23.DESC	Class_None
173	Station_24.DESC	Class_None
174	AppInfo_1. PACK_NAME	Class_None
175	AppInfo_1. PACK_VER	Class_None
176	AppInfo_2. PACK_NAME	Class_None
177	AppInfo_2. PACK_VER	Class_None
178	AppInfo_3. PACK_NAME	Class_None
179	AppInfo_3. PACK_VER	Class_None
180	AppInfo_4. PACK_NAME	Class_None
181	AppInfo_4. PACK_VER	Class_None
182	AppInfo_5. PACK_NAME	Class_None
183	AppInfo_5. PACK_VER	Class_None
184	AppInfo_6. PACK_NAME	Class_None
185	AppInfo_6. PACK_VER	Class_None
186	AppInfo_7. PACK_NAME	Class_None
187	AppInfo_7. PACK_VER	Class_None
188	AppInfo_8. PACK_NAME	Class_None
189	AppInfo_8. PACK_VER	Class_None

## 5. Object Parameter Listing

This chapter provides tables describing the measurement types and parameters for each DNP3 object.

### 5.1 Measurement Types

Table 5-1 details the unit codes associated with each measurement type. Depending on the data type, the unit code type associated with a parameter (or an instance of a parameter) can appear as a number in parentheses in the Default Measurement Type column.

- For Data Type ENUM16, the description of the Measurement Type appears as a number in parentheses [here, **(30)**] after the value in the Default Measurement Type column and the unit code number – which correlates to the Units column in Table 5-1 – appears as a number in parentheses [here, **(0)**] after the value in the Default column:

Action Block								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
ACTION_BLK_ENABLE	Action Block Enable Switch: 0 - Disable 1 - Enable	ENUM16	0 -> 1	Disable (0)	Enable/Disable Selection (30)	R/W: Admin; Engineer R/O: Meas. Tech; Operator; Auditor	01.00.03.03	Log Changes
ACTION_BLK	Action Block Activation Status	ENUM16	0 -> 1	Inactive (0)	Action Block Status	R/W:	01.00.03.03	

- For other data types (such as DOUBLE, FLOAT, or UINT), the description of the Measurement Type appears in the Default Measurement Type column as two numbers separated by a hyphen [here, **(12-7)**]. The value *before* the hyphen correlates to the value in the Type column of Table 5-1 and the value *after* the hyphen correlates to the unit code for that specific type (that is, Type 12 and Unit 7):

Linear Meter								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
AA_VOL_RATE_MECH	Auto Adjust Mechanical Rate	DOUBLE		0	MCF/d (12-7)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	01.00.03.03	Legal

- Finally, for some parameters/data types, the Default Measurement Type is blank, indicating that the Default Measurement Type is not applicable:

Action Block								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
ACTION_POINT	Output Action Point	ParamRef		Undefined		R/W: Admin; Engineer R/O: Meas. Tech; Operator; Auditor	01.00.03.03	Log Changes

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**Table 5-1. Measurement Types**

Type	Description	Units
0	Unitless	
1	Differential Pressure Display	0 = inH2O 1 = inH2O 2 = kPa 3 = mbar 4 = kg/cm <sup>2</sup> 5 = psi 6 = bar
2	Absolute Pressure	0 = psi(a) 1 = kPa(a) 2 = MPa(a) 3 = bar(a) 4 = kg/cm <sup>2</sup> (a)
3	Temperature	0 = °F 1 = °C 2 = K
4	Gas Density	0 = lb/ft <sup>3</sup> 1 = kg/m <sup>3</sup> 2 = g/cc 3 = lb/MMCF 4 = lb/US gal 5 = kg/L 6 = lb/bbl 7 = RD 8 = °API
5	Volume Heating Value	0 = Btu/ft <sup>3</sup> 1 = MJ/m <sup>3</sup>
6	Dynamic Viscosity	0 = cP 1 = lb/ft-s
7	Linear (Short)	0 = in 1 = mm
8	Linear (Long)	0 = ft 1 = m
9	Gas Volume Total	0 = ft <sup>3</sup> 1 = m <sup>3</sup> 2 = MCF 3 = (k)m <sup>3</sup> 4 = MMCF 5 = BCF 6 = L 7 = US gal 8 = bbl
10	Mass Total	0 = lb 1 = kg 2 = Mlb 3 = tonne

Type	Description	Units
		4 = ton
11	Energy Total	0 = Btu 1 = MMBtu 2 = J 3 = MJ 4 = GJ 5 = Dth 6 = TJ 7 = PJ
12	Gas Volume Rate	0 = ft <sup>3</sup> /s 1 = ft <sup>3</sup> /min 2 = ft <sup>3</sup> /h 3 = ft <sup>3</sup> /d 4 = MCF/s 5 = MCF/min 6 = MCF/h 7 = MCF/d 8 = m <sup>3</sup> /s 9 = m <sup>3</sup> /min 10 = m <sup>3</sup> /h 11 = m <sup>3</sup> /d 12 = (k)m <sup>3</sup> /s 13 = (k)m <sup>3</sup> /min 14 = (k)m <sup>3</sup> /h 15 = (k)m <sup>3</sup> /d 16 = MMCF/s 17 = MMCF/min 18 = MMCF/h 19 = MMCF/d 20 = BCF/s 21 = BCF/min 22 = BCF/h 23 = BCF/d 24 = L/s 25 = L/min 26 = L/h 27 = L/d 28 = US gal/s 29 = US gal/min 30 = US gal/h 31 = US gal/d 32 = bbl/s 33 = bbl/min 34 = bbl/h 35 = bbl/d
13	Mass Rate	0 = lb/s 1 = lb/min 2 = lb/h 3 = lb/d 4 = Mlb/s

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Type	Description	Units
		5 = Mlb/min 6 = Mlb/h 7 = Mlb/d 8 = kg/s 9 = kg/min 10 = kg/h 11 = kg/d 12 = tonne/s 13 = tonne/min 14 = tonne/h 15 = tonne/d 16 = ton/s 17 = ton/min 18 = ton/h 19 = ton/d
<b>14</b>	Energy Rate	0 = Btu/s 1 = Btu/min 2 = Btu/h 3 = Btu/d 4 = MMBtu/s 5 = MMBtu/min 6 = MMBtu/h 7 = MMBtu/d 8 = J/s 9 = J/min 10 = J/h 11 = J/d 12 = MJ/s 13 = MJ/min 14 = MJ/h 15 = MJ/d 16 = GJ/s 17 = GJ/min 18 = GJ/h 19 = GJ/d 20 = Dth/s 21 = Dth/min 22 = Dth/h 23 = Dth/d 24 = TJ/s 25 = TJ/min 26 = TJ/h 27 = TJ/d 28 = PJ/s 29 = PJ/min 30 = PJ/h 31 = PJ/d
<b>15</b>	Current	0 = mA 1 = A
<b>16</b>	Voltage	0 = V



Type	Description	Units
		1 = kV
17	Duration	0 = s 1 = min 2 = h 3 = d
18	Ratio	0 = % 1 = RESERVED 2 = ppm
19	Acceleration	0 = ft/s <sup>2</sup> 1 = m/s <sup>2</sup>
20	Latitude	0 = °
21	Water Content	0 = lb/MMSCF 1 = kg/(k)m <sup>3</sup>
22	Joule-Thompson Coefficient	0 = °F/psi 1 = K/bar 2 = K/kPa 3 = °C/bar 4 = °C/kPa 5 = K/MPa
23	Resistance	0 = ohms
24	Frequency	0 = Hz
25	Molar Mass	0 = lb/lb-mol 1 = kg/kmol 2 = g/mol
26	Differential Pressure Selection	0 = inH <sub>2</sub> O@60°F 1 = inH <sub>2</sub> O@68°F 2 = kPa 3 = mbar 4 = kg/cm <sup>2</sup> 5 = psi 6 = bar
27	Volumetric K-factor	0 = pulses/ft <sup>3</sup> 1 = pulses/m <sup>3</sup> 2 = pulses/US gal 3 = pulses/bbl
28	Mass K-factor	0 = pulses/lb 1 = pulses/kg
29	Gauge Pressure	0 = psi(g) 1 = kPa(g) 2 = MPa(g) 3 = bar(g) 4 = kg/cm <sup>2</sup> (g)
30	Enable/Disable Selection	0 = Disable 1 = Enable
31	User Selection	0 = Live 1 = Override

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Type	Description	Units
32	Fault Selection	0 = Live/Download 1 = Fault 2 = Last Good 3 = Last Hour Average
33	Composite System Integrity	0 = Normal 1 = Alarm 2 = Fault
34	Day of Week	0 = Sunday 1 = Monday 2 = Tuesday 3 = Wednesday 4 = Thursday 5 = Friday 6 = Saturday
35	Date Format Selection	0 = MM/DD/YY 1 = MM/DD/YYYY 2 = DD/MM/YY 3 = DD/MM/YYYY 4 = YYYY/MM/DD 5 = YY/MM/DD
36	Time Format Selection	0 = 12 Hour 1 = 24 Hour
37	Language Selection	0 = English
38	Port Owner	0 = Debug 1 = DNP3/Modbus Slave 2 = DNP3 3 = Modbus Slave 4 = Modbus Master 5 = BSAP 6 = ROC 7 = MVS4088B 8 = HART Slave
39	Baud Rate	0 = 1200 1 = 2400 2 = 4800 3 = 9600 4 = 19.2K 5 = 38.4K 6 = 57.6K 7 = 115.2K
40	Serial Settings	0 = 7 data bits; odd parity; 1 stop bit 1 = 7 data bits; even parity; 1 stop bit 2 = 8 data bits; no parity; 1 stop bit 3 = 8 data bits; odd parity; 1 stop bit 4 = 8 data bits; even parity; 1 stop bit
41	IPv4 Address	0 = IPv4
42	48-Bit MAC Address	0 = 48-bit

Type	Description	Units
43	History Type	0 = Average 1 = Total / Difference 2 = Snapshot 3 = Minimum 4 = Maximum 5 = Integration
44	Alarm Status DP SP	0 = Normal 1 = Not Licensed 2 = Instance Inactive 3 = Comm Fail 4 = Override Active 5 = In Alarm 6 = Point Fail 7 = Above URL 8 = Below LRL 9 = Input Frozen
45	Composite Status Alarm	0 = Normal 1 = Low 2 = Low Low 3 = High 4 = High High 5 = Rate of Change 6 = Point Fail
46	Discrete Output Type	0 = Latching 1 = Momentary 2 = Toggle 3 = Time Duration Output Momentary 4 = Time Duration Output Toggle 5 = Scaled Pulse Output
47	Output Mode	0 = Manual 1 = Auto
48	Output Action on Power Cycle	0 = Last 1 = Fault
49	CVD Curve Selection	0 = User 1 = Alpha 0.00385 DIN/IEC 2 = Alpha 0.00392
50	Meter Type Selection	0 = AGA3 Orifice (Flange Taps) 1 = ISO5167 Orifice (Flange Taps) 2 = ISO5167 Orifice (Corner Taps) 3 = ISO5167 Orifice (D & D/2 Taps) 4 = ISO5167 Venturi (As Cast) 5 = ISO5167 Venturi (Machined) 6 = ISO5167 Venturi (Rough Weld) 7 = ISO5167 Nozzle (Venturi) 8 = ISO5167 Nozzle (Long Radius) 9 = ISO5167 Nozzle (ISA 1932) 10 = 1595 Conditioning Orifice (Flange) 11 = 1595 Conditioning Orifice (D and D/2) 12 = 405C Compact Orifice

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Type	Description	Units
		13 = Cone (McCrometer V-Cone) 14 = Cone (McCrometer Wafer-Cone) 15 = Cone (NUFLO)
51	AGA 3 Calculation Method	0 = AGA3 1992 Volume 1 = AGA3 1992 Mass 2 = AGA3 1992 Relative Density 3 = AGA3 2013 Volume 4 = AGA3 2013 Mass 5 = AGA3 2013 Relative Density
52	ISO 5167 Calculation Method	0 = ISO5167 1991 1 = ISO5167 1998 2 = ISO5167 2003
53	Linear Meter Type	0 = Turbine 1 = Coriolis 2 = Auto-Adjust 3 = Ultrasonic 4 = Positive Displacement
54	Density/Compress Calc Selection	0 = AGA8 1994 Detailed 1 = AGA8 1994 Gross 1 2 = AGA8 1994 Gross 2 3 = ISO12213-2 2009 4 = SGERG 1991 CV/RD/CO2/H2 (Std) 5 = SGERG 1991 CV/RD/N2/H2 6 = SGERG 1991 RD/N2/CO2/H2) 7 = SGERG 1991 CV/N2/CO2/H2) 8 = ISO12213-3 2006 CV/RD/CO2/H2 (Pref) 9 = ISO12213-3 2006 N2/CV/RD/H2 (Set B) 10 = ISO12213-3 2006 N2/CO2/RD/H2 (Set C) 11 = ISO12213-3 2006 NS/CO2/CV/H2 (Set D) 12 = NX-19 1962 (Z VDI/VDE) 13 = NX-19 Mod 14 = NX-19 VDI/VDE 15 = AGA8 Part 1 2017 Detailed 16 = RESERVED 17 = AGA8 Part 1 2017 Gross 1 18 = AGA8 Part 1 2017 Gross 2 19 = AGA8 Part 1 2017/GERG 2008 20 = NX-19 (Z Miller)
55	Heating Value Calculation Selection	0 = GPA2172 2009 Gross 1 = ISO6976 1995 Superior 2 = ISO6976 1995 Inferior 3 = (AGA5 2009 Gross) 4 = (AGA5 2009 Net)
56	Heating Value Combustion Reference	0 = 60°F 1 = 0°C 2 = 15°C 3 = 20°C 4 = 25°C
57	SP Type Selection	0 = Gauge

Type	Description	Units
		1 = Absolute
58	Pressure Location	0 = Upstream 1 = Downstream
59	Material Selection	0 = Carbon Steel 1 = 304 Stainless Steel 2 = 316 Stainless Steel 3 = Generic Stainless 4 = Monel 400 5 = User Entered Alpha
60	Modbus Mode Selection	0 = ASCII 1 = RTU 2 = TCP
61	Modbus Byte Order Selection	0 = LSB 1 = MSB
62	Modbus 4-byte Types	0 = 1 Register 1 = 2 Register 0-1-2-3 2 = 2 Register 1-0-3-2 3 = 2 Register 2-3-0-1 4 = 2 Register 3-2-1-0
63	Modbus 8-byte Types	0 = 1 Register 1 = 4 Register 0-1-2-3-4-5-6-7 2 = 4 Register 2-3-0-1-6-7-4-5 3 = 4 Register 4-5-6-7-0-1-2-3 4 = 4 Register 6-7-4-5-3-2-0-1 5 = 4 Register 1-0-3-2-5-4-7-6 6 = 4 Register 3-2-1-0-7-6-5-4 7 = 4 Register 5-4-7-6-1-0-3-2 8 = 4 Register 7-6-5-4-3-2-1-0
64	Data Type Select	0 = Unknown
65	Calculation Fault Option	0 = Alarm Disabled 1 = Alarm and Continue 2 = Alarm and Halt Calculation
66	Remote Data Types	0 = No Conversion 1 = UINT8 2 = INT8 3 = UINT16 4 = INT16 5 = UINT32 (2 Registers 0-1-2-3) 6 = UINT32 (2 Registers 1-0-3-2) 7 = UINT32 (2 Registers 2-3-0-1) 8 = UINT32 (2 Registers 3-2-1-0) 9 = INT32 (2 Registers 0-1-2-3) 10 = INT32 (2 Registers 1-0-3-2) 11 = INT32 (2 Registers 2-3-0-1) 12 = INT32 (2 Registers 3-2-1-0) 13 = UINT64 (4 Registers 0-1-2-3-4-5-6-7) 14 = UINT64 (4 Registers 2-3-0-1-6-7-4-5) 15 = UINT64 (4 Registers 4-5-6-7-0-1-2-3)

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Type	Description	Units
		16 = UINT64 (4 Registers 6-7-4-5-2-3-0-1)
		17 = UINT64 (4 Registers 1-0-3-2-5-4-7-6)
		18 = UINT64 (4 Registers 3-2-1-0-7-6-5-4)
		19 = UINT64 (4 Registers 5-4-7-6-1-0-3-2)
		20 = UINT64 (4 Registers 7-6-5-4-3-2-1-0)
		21 = INT64 (4 Registers 0-1-2-3-4-5-6-7)
		22 = INT64 (4 Registers 2-3-0-1-6-7-4-5)
		23 = INT64 (4 Registers 4-5-6-7-0-1-2-3)
		24 = INT64 (4 Registers 6-7-4-5-2-3-0-1)
		25 = INT64 (4 Registers 1-0-3-2-5-4-7-6)
		26 = INT64 (4 Registers 3-2-1-0-7-6-5-4)
		27 = INT64 (4 Registers 5-4-7-6-1-0-3-2)
		28 = INT64 (4 Registers 7-6-5-4-3-2-1-0)
		29 = FLOAT (2 Registers 0-1-2-3)
		30 = FLOAT (2 Registers 1-0-3-2)
		31 = FLOAT (2 Registers 2-3-0-1)
		32 = FLOAT (2 Registers 3-2-1-0)
		33 = DOUBLE (4 Registers 0-1-2-3-4-5-6-7)
		34 = DOUBLE (4 Registers 2-3-0-1-6-7-4-5)
		35 = DOUBLE (4 Registers 4-5-6-7-0-1-2-3)
		36 = DOUBLE (4 Registers 6-7-4-5-2-3-0-1)
		37 = DOUBLE (4 Registers 1-0-3-2-5-4-7-6)
		38 = DOUBLE (4 Registers 3-2-1-0-7-6-5-4)
		39 = DOUBLE (4 Registers 5-4-7-6-1-0-3-2)
		40 = DOUBLE (4 Registers 7-6-5-4-3-2-1-0)
		41 = SINGLE REGISTER FLOATING POINT
		42 = SINGLE REGISTER DOUBLE
		43 = SINGLE REGISTER INT32
		44 = SINGLE REGISTER UINT32
		45 = SINGLE REGISTER INT64
		46 = SINGLE REGISTER UINT64
		47 = STRING (10 Characters)
		48 = STRING (20 Characters)
		49 = STRING (30 Characters)
		50 = STRING (40 Characters)
<b>67</b>	Normalization Type	0 = None 1 = Full Normalization 2 = Methane Adjust
<b>68</b>	Port Type	0 = Serial 1 = Ethernet 2 = WiFi 3 = USB
<b>69</b>	Serial Port Mode	0 = RS-232 1 = RS-485 2-Wire (No Termination) 2 = RS-485 2-Wire (Terminated) 3 = RS-485 4-Wire (No Termination) 4 = RS-485 4-Wire (Terminated)
<b>70</b>	H2O Content Basis	0 = Dry 1 = Saturated at Base Conditions 2 = RESERVED

Type	Description	Units
		3 = Partially Saturated
71	Averaging Type	0 = Linear 1 = Flow Dependent Linear
72	Battery Type	0 = None 1 = Lithium 2 = Lead Acid 3 = Not Applicable
73	Fluid Type	0 = Natural Gas 1 = Liquid
74	Base Temperature	0 = User 1 = 60°F 2 = 15°C 3 = 20°C 4 = 30°C 5 = 0°C
75	Water Content Calc Standard	0 = IGT Bulletin 8
76	RESERVED	0 = RESERVED
77	Annubar Calc Selection	0 = 485-1 1 = 485-2 2 = 485-3
78	Pressure	0 = psi 1 = kPa 2 = MPa 3 = bar 4 = kg/cm <sup>2</sup>
79	User Mode Selection 1	0 = Measured 1 = Override 2 = Calculated
80	Object Status	0 = Normal 1 = In Alarm 2 = Failure 3 = Override 4 = Inactive
82	Live Trigger	0 = No Action 1 = Accept Composition
83	RTD Type	0 = 2-wire 1 = 3-wire 2 = 4-wire
84	History Group Type	0 = General History 1 = Meter History 2 = User Periodic
85	Sensor Configuration	0 = Standard Coplanar 1 = Standard Threaded 2 = Level Coplanar 3 = Reference Class Coplanar 4 = High Temp Conventional

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Type	Description	Units
		5-251 = RESERVED 252 = Unknown
86	Sensor Type	0 = Dual Variable 1 = DP Only 2 = SP Only
87	Status Pressure Type	0 = No Static Pressure 1 = Absolute 2 = Gauge
88	RMT Sensor Range	0 = Range 0 1 = Range 1 2 = Range 2 3 = Range 3 4 = Range 4 5 = Range 5 6 = Range 6 7 = Range 7 8 = Range 8 9 = Range 9 10 = Range 10 11-252 = RESERVED 253 = Special
89	Flange Type	0-11 = RESERVED 12 = Traditional 13 = Coplanar 14 = Remote Seal 15 = Level; 3in; 150lb 16 = Level; 4in; 150lb 17 = Level; 3in; 300lb 18 = Level; 4in; 300lb 19 = Level; DN 80; PN 40 20 = Level; DN 100; PN 40 21 = Level; DN 100; PN 10/16 22 = Level; 2 in; 150lb 23 = Level; 2in; 300lb 24 = Level; DN 50; PN 6 25 = Level; DN 50; PN 40 26-43 = RESERVED 44 = 1/2in; NPTF 45 = DIN16288G 1/2 A male 46 = 1/4in; NPTF 47-239 = RESERVED 240 = Auto Clave F-250-C 241 = Tri-Clamp 242 = Fractional Line Fit 243 = 1/8in; NPTF 244 = VCR 245 = PMC 246 = Traditional RC 1/4 247 = Traditional RC 1/2 248-251 = RESERVED



Type	Description	Units
		252 = Unknown 253 = Special
<b>90</b>	Sensor Material	0 = Carbon Steel 1 = Undefined 2 = 316 Stainless Steel 3 = Hastelloy® C 4 = Monel 5 = Tantalum 6-14 = RESERVED 15 = Gold Monel 16-23 = RESERVED 24 = Kynar® 25 = Gold Monel 26-29 = RESERVED 30 = Hastelloy® C276 31-33 = RESERVED 34 = PTFE Coated 316L SST 35 = Gold-plated Hastelloy C276 36-238 = RESERVED 239 = Monel 400 240-250 = RESERVED 251 = None 252 = Unknown 253 = Special
<b>91</b>	O-ring Material	0-9 = RESERVED 10 = PTFE (Teflon® R) 11 = Viton 13 = Ethyl-Prop 14-35 = RESERVED 36 = PTFE Glass 37 = PTFE Graphite 38-250 = RESERVED 251 = None 252 = Unknown 253 = Special
<b>92</b>	Fill Fluid	0 = Undefined 1 = Silicone 2 = Inert 3-6 = RESERVED 7 = NEOBEE® M-20 8-251 = RESERVED 252 = Unknown 253 = Special
<b>93</b>	Product Type	0 = FB1100 1 = FB1200 2 = FB2100 3 = FB2200 4 = FB3000 5 = I/O Scanner

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Type	Description	Units
94	Heavy Gas Mode	0 = Disabled 1 = C6+ 2 = C7+ 3 = C8+ 4 = C9+
95	WiFiSecurity Option	0 = Open 1 = WPA-2
96	Cd/Fc Curve Option	0 = Disabled 1 = Cd vs Re Curve 2 = Fc vs Flow Curve
97	User Mode Selection 2	0 = RESERVED 1 = Override 2 = Calculated
98	User Mode Selection 3	0 = Measured 1 = Override 2 = Calculated 3 = Remote Download
99	Actual Mode	0 = Measured 1 = Override 2 = Calculated 3 = Remote Download 4 = Fault
100	Alarm Type	0 = Low 1 = Low Low 2 = High 3 = High High 4 = Rate of Change 5 = User Account Locked 6 = Log Full Limit Exceeded 7 = Log Nearly Full Limit Exceeded 8 = Log Integrity Failure 9 = Battery Status 10 = Low Voltage 11 = Override 12 = Point Fail 13 = Digital ON Status Alarm 14 = No Response from Periodic History 15 = Analysis Timeout 16 = Normalization Failure 17 = Flow Calculation Alarm 18 = Properties Calculation Alarm 19 = Auto-Adjust System Alarm 20 = Auto-Adjust Flow Alarm 21 = Auto-Adjust Delta A Alarm 22 = History Point Movement Failure 23 = Door Open Status Alarm 24 = Other 25 = Flow Calc Alarm: Invalid Input(s) 26 = Flow Calc Alarm: Invalid Config

Type	Description	Units
		27 = Flow Calc Alarm: Calculation Error
		28 = Flow Calc Alarm: Boundary Error
		29 = Flow Calc Alarm: Invalid Station Assign
		30 = Flow Calc Alarm: RESERVED
		31 = Flow Calc Alarm: RESERVED
		32 = Flow Calc Alarm: RESERVED
		33 = Flow Calc Alarm: DP/Flow
		34 = Flow Calc Alarm: Pressure
		35 = Flow Calc Alarm: Temperature
		36 = Flow Calc Alarm: Flowing Density/Z
		37 = Flow Calc Alarm: Base Density/Z
		38 = Flow Calc Alarm: Relative Density
		39 = Flow Calc Alarm: HV/Enthalpy
		40 = Flow Calc Alarm: Viscosity
		41 = Flow Calc Alarm: User Corr Factor
		42 = Flow Calc Alarm: Total/Increment
		43 = Flow Calc Alarm: Integral Multi Value
		44 = Flow Calc Alarm: RESERVED
		45 = Flow Calc Alarm: RESERVED
		46 = Flow Calc Alarm: RESERVED
		47 = Flow Calc Alarm: RESERVED
		48 = Flow Calc Alarm: RESERVED
		49 = Flow Calc Alarm: RESERVED
		50 = Flow Calc Alarm: Beta Ratio
		51 = Flow Calc Alarm: DP/P Ratio
		52 = Flow Calc Alarm: Isentropic Exponent
		53 = Flow Calc Alarm: Reynolds Number
		54 = Flow Calc Alarm: Pressure/Loss Ratio
		55 = Flow Calc Alarm: Alpha
		56 = Flow Calc Alarm: Expansion Factor
		57 = Flow Calc Alarm: K-factor/Meter Factor
		58 = Flow Calc Alarm: Mass Press Corr Factor
		59 = Flow Calc Alarm: RESERVED
		60 = Flow Calc Alarm: RESERVED
		61 = Flow Calc Alarm: RESERVED
		62 = Flow Calc Alarm: RESERVED
		63 = Flow Calc Alarm: RESERVED
		64 = Flow Calc Alarm: K-factor/Meter Factor
		65 = Flow Calc Alarm: Mass Press Corr Factor
		66 = Flow Calc Alarm: Water Cut
		67 = Flow Calc Alarm: Shrinkage Factor
		68 = Flow Calc Alarm: CTL
		69 = Flow Calc Alarm: NGL Factor/Flash Fctr
		70 = Flow Calc Alarm: RESERVED
		71 = Prop Calc Alarm: Invalid Input (s)
		72 = Prop Calc Alarm: Invalid Config
		73 = Prop Calc Alarm: Calculation Error
		74 = Prop Calc Alarm: Boundary Error
		75 = Prop Calc Alarm: RESERVED
		76 = Prop Calc Alarm: RESERVED
		77 = Prop Calc Alarm: RESERVED

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Type	Description	Units
		78 = Prop Calc Alarm: RESERVED
		79 = Prop Calc Alarm: RESERVED
		80 = Prop Calc Alarm: Temperature
		81 = Prop Calc Alarm: Flowing Density/Z
		82 = Prop Calc Alarm: Base Density/Z
		83 = Prop Calc Alarm: Relative Density
		84 = Prop Calc Alarm: HV/Enthalpy
		85 = Prop Calc Alarm: Composition
		86 = Prop Calc Alarm: Water Content
		87 = Prop Calc Alarm: Atm Press/Grav Accel
		88 = Prop Calc Alarm: Viscosity
		89 = Prop Calc Alarm: Isentropic Exponent
		90 = Prop Calc Alarm: Speed of Sound
		91 = Prop Calc Alarm: Critical Temp/Press
		92 = Prop Calc Alarm: RESERVED
		93 = Prop Calc Alarm: RESERVED
		94 = Prop Calc Alarm: RESERVED
		95 = Prop Calc Alarm: RESERVED
		96 = Prop Calc Alarm: RESERVED
		97 = Prop Calc Alarm: RESERVED
		98 = Prop Calc Alarm: RESERVED
		99 = Prop Calc Alarm: RESERVED
		100 = Prop Calc Alarm: RESERVED
		101 = Prop Calc Alarm: RESERVED
		102 = Prop Calc Alarm: RESERVED
		103 = Parameter Health Status
		104 = Meter Task Detected Fatal Error
		105 = External Accumulator High Increment
		106 = Transaction Trigger Limit Reached
		107 = No Response From Trans History
<b>101</b>	Alarm Direction	0 = Clear 1 = Set
<b>102</b>	User Alarm Type	0 = Low 1 = Low Low 2 = High 3 = High High 4 = Rate of Change 5 = Discrete 6 = Calculation 7 = Manual 8 = Scanning Disabled 9 = Calibration 10 = Failsure 11 = Failsafe 12 = Permanent Shutdown 13 = Temporary Shutdown 14 = Action on Failure 15 = Other
<b>103</b>	Event Type	0 = RESERVED 1 = Power Applied

Type	Description	Units
		2 = Power Removed
		3 = Battery Changed
		4 = Firmware Update Start
		5 = Firmware Apply Package Version
		6 = Firmware Update Complete
		7 = Firmware Update Package Restore Fail
		8 = Task Restarted
		9 = CPU Module Changed
		10 = PM Module Changed
		11 = CPU Module Previous
		12 = PM Module Previous
		13 = Schedule Slip Detected
		14 = Event Type 14
		15 = Event Type 15
		16 = Login Success
		17 = Login Fail Invalid Credentials
		18 = Account Locked
		19 = Logout
		20 = Account Added
		21 = Account Removed
		22 = Account Modified
		23 = Log Clear
		24 = Log Clear Due to CRC Corrupt
		25 = History Point Cleared
		26 = System Down
		27 = Action Block Trip Status Changed
		28 = Database Initialized
		29 = Daylight Saving Time Change
		30 = Total Rollover
		31 = System Restart
		32 = Pulse Accum Rollover
		33 = Firmware Apply Image Version
		34 = Firmware I/O Board Disabled
		35 = Restart During Calc Cycle
		36 = Configuration Counter Changed
		37 = Log Clear for Combined Event Log
		38 = Log Clear for Separate Event Logs
		39 = History Clear
		40 = Alarm Clear
		41 = Event Clear
		42 = History Records Lost
		43 = Alarm Records Lost
		44 = Event Records Lost
		45 = Standard History Point Archival Reset
		46 = GC Data Read Failed
		47 = Hist Group Read Failed
		48 = Application Clear
		49 = Users Clear
		50 = Counts Dropped
		51 = FBxNet Watchdog
		52 = Legal Event Exported/Event Exported

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Type	Description	Units
		53 = User Defined Protocol Maps Clear 54 = FW Checksum Error on IO Card 55 = FW Checksum Error 56 = Configuration Checksum Mismatch 57 = Configuration Checksum Saved 58 = Application Restarted 59 = External Accumulator Rollover 60 = Transaction History Clear 61 = Trans History Record Lost 62 = DNP3 Sav5 Enabled 63 = DNP3 Sav5 Disabled 64 = DNP3 Sav5 Keys Updated
<b>104</b>	Calibration Event Type	0 = Verification 1 = Calibration Start 2 = Set Zero 3 = Set Span 4 = Set Midpoint1 5 = Set Midpoint2 6 = Set Midpoint3 7 = Calibration Done 8 = Calibration Cancel 9 = Calibration Restore Defaults 10 = Set Zero Shift 11 = Input Frozen 12 = Input Unfrozen 13 = Calibration Timeout
<b>105</b>	User Event Type	0 = Informational 1 = Error 2 = Status 3 = Calculated Factor 4 = Message 5 = Data 6 = Notice 7 = Feedback 8 = Confirmation 9 = Program Adjusted 10 = Estimated Result 11 = User Input 12 = System Change 13 = HMI Input 14 = Other
<b>106</b>	Alarm Record Type	0 = Parameter 1 = Application 2 = User Application 3 = User Parameter
<b>107</b>	Event Record Type	0 = Parameter Change 1 = Application 2 = Calibration 3 = User Application 4 = String

Type	Description	Units
		5 = VTE Parameter Change 6 = VTE Application 7 = VTE Calibration 8 = Parameter Alarm 9 = Application Alarm
<b>110</b>	Sensor Transmitter Status	0 = Normal 1 = SP Out of Low Limits 2 = SP Below Low Alr Limits 3 = SP Above Upr Alr Limits 4 = SP Out of Hi Limits 5 = DP Out of Low Limits 6 = DP Below Low Alr Limits 7 = DP Above Upr Alr Limits 8 = DP Out of Hi Limits 9 = Warning Set 10 = Critical Alr Set 11 = 4088B Calib in Progress 12 = Sensor Module Fail 13 = LCD Comm Error 14 = RTD Sensor Mismatch 15 = ST Below Low Alr Limits 16 = ST Above Upr Alr Limits 17 = ST Out of Low Limits 18 = ST Out of Hi Limits 19 = PT Sensor Fail 20 = PT Out of Low Limits 21 = PT Below Low Alr Limits 22 = PT Above Upr Alr Limits 23 = PT Out of Hi Limits 24 = ST Simulation Enable 25 = Write Protect Switch Lock 26 = PT Simulation Enable 27 = Feature Board Fail 28 = SP Simulation Enable 29 = DP Simulation Enable 30 = Sensor Module Incompatible 31 = Power Fail 32 = Sensor Module Comm Fail
<b>111</b>	Idle Action	0 = Sleep 1 = Always On
<b>112</b>	PID Control Type	0 = Primary Only 1 = Override Only 2 = Dual Control
<b>113</b>	PID Output Type	0 = Analog 1 = Discrete
<b>114</b>	PID Control Action	0 = Forward 1 = Reverse
<b>115</b>	PID Switch Logic	0 = Lesser 1 = Greater

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Type	Description	Units
116	PID Selected Loop	0 = Disabled 1 = Primary 2 = Override
117	Data Quality	0 = Healthy 1 = Unhealthy
118	PID Action on Unhealthy Data	0 = Continue 1 = Manual Mode
119	QTR Log Break Options	0 = Disabled 1 = Hourly Only 2 = All Standard Periodic Logs
120	Temperature Correction Selection	0 = No Correction 1 = Isentropic 2 = Isenthalpic (Joule-Thomson)
121	Lockout Type	0 = Disabled 1 = Timed
122	IO Scan Period	0 = 1 s 1 = 250 ms
123	Enclosure Door Status	0 = Enclosure Door Closed 1 = Enclosure Door Open
124	AI Resistor Selection	0 = Current 1 = Voltage 2 = Disabled
125	Actual Mode	0 = Live 1 = Auto 2 = Auto Read 3 = Override 4 = Calibration 5 = Fault 6 = Last Good 7 = Last Hour Average 8 = Ramp to Fault Value 9 = Ramp to Last Hour Avg 10 = Polling Disabled
127	Raw Counts	0 = A/D Counts 1 = D/A Counts
128	Factory Calibration Status	0 = Invalid 1 = Valid
129	AI Status	0 = Normal 1 = Not Licensed 2 = Instance Inactive 3 = Comm Fail 4 = Override Active 5 = In Alarm 6 = Point Fail 7 = Above Calibration Limit 8 = Below Calibration Limit 9 = Input Frozen



Type	Description	Units
		10 = Input Clipped 11 = Factory Calibration Invalid 12 = User Calibration Invalid 13 = Disabled 14 = Termination Missing 15 = Hardware Fail 16 = HART Device Fail
<b>130</b>	AO Status	0 = Normal 1 = Not Licensed 2 = Instance Inactive 3 = Comm Fail 4 = Override Active 5 = In Alarm 6 = Point Fail 7 = Above URL 8 = Below LRL 9 = HART Device Fail - 10 = Output Clipped 11 = Factory Calibration Invalid 12 = Auto Read Parameter Invalid 13 = AO Readback Failure 14 = Termination Missing 15 = Disabled 16 = Hardware Fail
<b>131</b>	IO Output User Selection	0 = Auto 1 = Override 2 = Auto Read
<b>132</b>	DI Type	0 = Normal 1 = Latched
<b>133</b>	Logic Level	0 = 66 microamps 1 = 2 milliamps
<b>134</b>	Digital Status	0 = Off 1 = On
<b>135</b>	1x00/2x00 DI Status	0 = Normal 1 = Not Licensed 2 = Instance Inactive 3 = Comm Fail 4 = Override Active 5 = In Alarm 6 = Point Fail 7 = Status Alarm 8 = Hardware Failure
<b>136</b>	IO Fault Selection	0 = Fault 1 = Last Good 2 = Last Hour Average 3 = Ramp to Last Value 4 = Ramp to Last Hour Avg
<b>137</b>	1x00/2x00 DO Status	0 = Normal

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Type	Description	Units
		1 = Not Licensed 2 = Instance Inactive 3 = Comm Fail 4 = Override Active 5 = In Alarm 6 = Point Fail 7 = Auto Read Parameter Invalid 8 = SPO Parameter Invalid 9 = Status Alarm 10 = Hardware Failure
138	PI Filter Mode	0 = Low Speed Filter 1 = High Speed Filter
139	PI Conversion Factor	0 = Pulses/EU
140	PI Rate Period	0 = Seconds 1 = Minutes 2 = Hours 3 = Days
141	Pulses	0 = Pulses
142	PI Status	0 = Normal 1 = Not Licensed 2 = Instance Inactive 3 = Comm Fail 4 = Override Active 5 = In Alarm 6 = Point Fail 7 = Above URL 8 = Below LRL 9 = Termination Missing 10 = Hardware Fail
143	Module Mode	0 = Not Installed 1 = Boot 2 = Normal 3 = Not Licensed 4 = Communication Failure 5 = Module Failure 6 = Power Off 7 = Termination Failure 8 = Firmware Mismatch 9 = Module Mismatch 10 = Firmware Error 11 = Termination Missing
144	AI/DI/PI Channel Type Select	0 = AI 1 = DI 2 = PI
145	Channel Type Select None	0 = None
146	Channel Type Select DO Only	0 = DO Only
147	AI/AO Channel Type Select	0 = AI 1 = AO

Type	Description	Units
<b>148</b>	DI/DO/PI Channel Type Select	0 = DI 1 = DO 2 = PI
<b>149</b>	Calibration Command	0 = None 1 = Freeze 2 = Start Calibration 3 = Set Zero 4 = Set Span 5 = Set Mid1 6 = Set Mid2 7 = Set Mid3 8 = Set Zero Shift 9 = Save Calibration 10 = Unfreeze 11 = Cancel Calibration 12 = Restore Factory Defaults 13 = Start Verification 14 = Set Verification Pt1 15 = Set Verification Pt2 16 = Set Verification Pt3 17 = Set Verification Pt4 18 = Set Verification Pt5 19 = Set Verification Pt6 20 = Set Verification Pt7 21 = Verification Done 22 = Restored Successfully 23 = Restore Failed
<b>150</b>	Calibration Status	0 = Calibration Not in Progress 1 = Input Frozen 2 = Calibration in Progress 3 = RESERVED 4 = Set Command Failed 5 = Timeout Occurred 6 = Span Too Small 7 = Excess Correction 8 = Passed Parameter Too Small 9 = Passed Parameter Too Large 10 = Ideal Value Too Small 11 = Ideal Value Too Large 12 = Wrong Command 13 = Verification in Progress
<b>151</b>	Week of Month	0 = First Week 1 = Second Week 2 = Third Week 3 = Fourth Week 4 = Last Week
<b>152</b>	Battery Status	0 = Battery Not in Use 1 = Lead Acid Fault 2 = Lead Acid Charging 3 = Lead Acid Standby

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Type	Description	Units
		4 = Lithium Battery on Reserve C Cell 5 = Lithium Battery Error 6 = Lithium Battery on Main D Cell
153	SRAM Battery Status	0 = Battery Normal 1 = Battery Failure or Removal
154	Battery Change	0 = No Change 1 = Battery Replaced 2 = CPU SRAM Battery Replaced 3 = PB SRAM Battery Replaced
155	Operational Trip Point 1X00	0 = 6 Volts 1 = 12 Volts 2 = 24 Volts
156	Log Type	0 = Undefined 1 = Legal Event 2 = Non-legal Event 3 = Legal Alarm 4 = Non-legal Alarm 5 = Legal History 6 = Non-legal History
157	Contract Day of Month	0 = RESERVED 1 = 1 2 = 2 3 = 3 4 = 4 5 = 5 6 = 6 7 = 7 8 = 8 9 = 9 10 = 10 11 = 11 12 = 12 13 = 13 14 = 14 15 = 15 16 = 16 17 = 17 18 = 18 19 = 19 20 = 20 21 = 21 22 = 22 23 = 23 24 = 24 25 = 25 26 = 26 27 = 27 28 = 28 29 = 3rd from Last Day of Month 30 = 2nd to Last Day of Month

Type	Description	Units
		31 = Last Day of Month
158	Start Poll	0 = Cancel 1 = Start
159	Continuous Poll	0 = Disabled 1 = Enabled
160	Indexing Used	0 = Point 1 = Parameter
161	Function Code	0 = Polling Disabled 1 = Read Coil Status 2 = Read Input Status 3 = Read Holding Registers 4 = Read Input Registers 5 = Force Single Coil 6 = Set Single Register 7-14 = RESERVED 15 = Force Multiple Coils 16 = Set Multiple Registers
162	Comm Status	0 = Inactive or Start of Transmission 1 = Response Timeout 2 = Function Code Error 3 = Invalid Register Error 4 = Invalid Request Data Error 5 = Exception Error Code Received 6 = Mapping Table Error 7 = Invalid Response Received 8 = CRC or LRC Check Error 9 = Database Read Error 10 = Valid Response Received 11 = Request Framing Error 12 = Transmit Timeout Error 13 = Database Write Error 14 = Broadcast Request Transmitted 15 = Unable to Connect Error
163	Comm Port Instance	0 = Serial Port 1 1 = Serial Port 2 2 = Serial Port 3 3 = WiFi Port 4 = Ethernet Port
164	Operational Trip Point 2x00	0 = RESERVED 1 = 12 Volts 2 = 24 Volts
165	Master Byte Order	0 = LSB First 1 = MSB First
166	Action Block Status	0 = Inactive 1 = Active
167	Action Block Operators	0 = Greater Than 1 = Less Than 2 = Equal To

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Type	Description	Units
		3 = Greater Than Or Equal To 4 = Not Equal To 5 = Less Than Or Equal To 6 = AND (Bitwise) 7 = OR (Bitwise) 8 = Watchdog 9 = Soft Timer
168	Action Block Bypass Type	0 = Latched 1 = Class B 2 = Class C 3 = Class B / C
169	Action Block Alarm Option	0 = None 1 = Alarm on Active 2 = Alarm on Inactive
170	Action Block Event Option	0 = None 1 = Event on Active 2 = Event on Inactive
171	Action Block Trip Logic	0 = True If Block True 1 = True If Chain True 2 = True If Either True 3 = True If Both True
172	Action Block Action Type	0 = No Action 1 = Effect 2 = Binary Action 3 = Move Value 4 = Load Value 5 = Write Value
173	Discrete Action Type	0 = Force 1 True & 0 False 1 = Force 0 True & 1 False 2 = Poke 1 True 3 = Poke 0 True 4 = Poke 1 True & 0 False 5 = Poke 0 True & 1 False 6 = Force 1 True & Poke 0 False 7 = Force 0 True & Poke 1 False 8 = Force 1 True 9 = Force 0 True
174	Math Block Equation State	0 = Invalid 1 = Valid
175	Effect Output Assert Type	0 = Neither State 1 = Active State Only 2 = Inactive State Only 3 = Both States
176	Effect Reset Option	0 = No Reset Required 1 = Reset Required
177	Effect Reset Ready Values	0 = No Reset Needed 1 = Ready for Reset

Type	Description	Units
<b>178</b>	AI Units Type	0 = Unitless 1 = RESERVED 2 = Absolute Pressure 3 = Temperature 4 = Gas Density 5 = Volume Heating Value 6 = Dynamic Viscosity 7 = Linear (Short) 8 = Linear (Long) 9-11 = RESERVED 12 = Gas Volume Rate 13 = Mass Rate 14 = Energy Rate 15 = Current 16 = Voltage 17 = RESERVED 18 = Percentage 19 = Acceleration 20 = RESERVED 21 = Water Content 22 = RESERVED 23 = Resistance 24-25 = RESERVED 26 = Differential Pressure 27-28 = RESERVED 29 = Gauge Pressure 30-224 = RESERVED 225 = Mass Heating Value 226-293 = RESERVED 294 = Liquid Density 295 = Water Density 296 = Liquid Volume 297 = Water Volume 298 = Liquid Rate 299 = Water Rate 300-305 = RESERVED 306 = Relative Density
<b>179</b>	AO Units Type	0 = Unitless 1 = RESERVED 2 = Absolute Pressure 3 = Temperature 4 = Gas Density 5 = Volume Heating Value 6 = Dynamic Viscosity 7 = Linear (Short) 8 = Linear (Long) 9-11 = RESERVED 12 = Gas Volume Rate 13 = Mass Rate 14 = Energy Rate 15 = Current

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Type	Description	Units
		16 = Voltage 17 = RESERVED 18 = Percentage 19 = Acceleration 20-22 = RESERVED 23 = Resistance 24-25 = RESERVED 26 = Differential Pressure 27-28 = RESERVED 29 = Gauge Pressure 30-224 = RESERVED 225 = Mass Heating Value 226-293 = RESERVED 294 = Liquid Density 295 = Water Density 296 = Liquid Volume 297 = Water Volume 298 = Liquid Rate 299 = Water Rate 300-305 = RESERVED 306 = Relative Density
180	PI Units Type	0 = Unitless 1-8 = RESERVED 9 = Gas Volume Total 10 = Mass Total 11-23 = RESERVED 24 = Frequency 25-295 = RESERVED 296 = Liquid Volume Total 297 = Water Volume Total
181	HV Measurement Basis	0 = Volume 1 = Mass
182	Water Adjustment Option	0 = No Adjustment 1 = Adjust Composition
183	Factor Curve Option	0 = Single Meter Factor / Single K-factor 1 = Meter Factor Curve / Single K-factor 2 = Single Meter Factor / K-factor Curve
184	Pipe Schedule	0 = Schedule 10 1 = Schedule 40 2 = Schedule 80
185	Meter Averaging Type	0 = Flow Dependent Linear 1 = Flow Dependent Formulaic 2 = Flow Weighted Linear 3 = Flow Weighted Formulaic
186	Rosemount Orifice Method	0 = Based on ISO5167 2003
187	Velocity	0 = ft/s 1 = m/s
188	User Mode Selection 4	0 = Measured



Type	Description	Units
		1 = Override 2 = RESERVED 3 = Remote Download
189	GC Component Update	0 = None 1 = Methane 2 = Nitrogen 3 = Carbon Dioxide 4 = Ethane 5 = Propane 6 = Water 7 = Hydrogen Sulfide 8 = Hydrogen 9 = Carbon Monoxide 10 = Oxygen 11 = i-Butane 12 = n-Butane 13 = i-Pentane 14 = n-Pentane 15 = Hexane 16 = Heptane 17 = Octane 18 = Nonane 19 = Decane 20 = Helium 21 = Argon 22 = neo-Pentane 23 = Benzene 24 = Toluene 25 = Undecane (C11) 26 = Dodecane (C12)
190	Components Alarm	0 = Normal 1 = Analysis Timeout 2 = Normalization Failure
191	Cx Split Type	0 = Hexane Plus Split (C6+) 1 = Heptane Plus Split (C7+) 2 = Octane Plus Split (C8+) 3 = Nonane Plus Split (C9+)
192	GC Validation Alarm	0 = Normal 1 = Component Limit Alarm 2 = Heating Value Limit Alarm 3 = Relative Density Limit Alarm 4 = Un-normalized Mole Sum Alarm 5 = Total Mole Sum Alarm 6 = Composition Deviation Alarm 7 = Alarm 1 8 = Alarm 2
193	Auto Configure	0 = No Action 1 = Auto Configure
194	Daylight Saving Time Status	0 = Standard Time

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Type	Description	Units
		1 = Saving Time 2 = Gift Time
195	Rate of Change Mode Alarm	0 = Disabled 1 = Alarm on Positive Changes 2 = Alarm on Negative Changes 3 = Alarm on Both
196	LCD Bit Masks	0 = None 1 = Differential Pressure 2 = Absolute Pressure 3 = Temperature 4 = Baud Rate 5 = Gage Pressure 6 = Sensor Temperature 7 = RESERVED 8 = Slave Address 9 = Host Parameter 1 10 = Host Parameter 2 11 = Host Parameter 3 12 = Host Parameter 4 13 = Host Parameter 5 14 = Host Parameter 6 15-16 = RESERVED 17 = Host Variable 1 18 = Host Variable 2 19 = Host Variable 3
197	Transmitter Status Option	0 = None 1 = DP Sensor Present 2 = AP Sensor Present 3 = GP Sensor Present 4 = PT Sensor Present 5 = LCD Available
198	User Commands	0 = No Command 1 = On Demand Connect 2 = On Demand Synchronize 3 = Transmitter Reset
199	Calibration Status of 4088	0 = No Measurement In Calibration 1 = DP Measurement In Calibration 2 = SP Measurement In Calibration 3 = PT Measurement In Calibration
200	Status	0 = Success 1 = Failure 2 = Disabled
201	4088 Input Status	0 = Normal 1 = Not Licensed 2 = Instance Inactive 3 = Communication Failed 4 = Config. Issue Due to Write Protect 5 = DP Failed 6 = Pressure Failed

Type	Description	Units
		7 = RTD Failed 8 = Synchronization In Progress 9 = Scan Disabled 10 = Writing Failed 11 = RESERVED 12 = 4088 in Mode A 13 = Reading Device 14 = Writing Device 15 = Baud Too Low 16 = Writing Baud Failed 17 = Sensor Disconnected 18 = Scanning Baud Rate 1200 19 = Scanning Baud Rate 2400 20 = Scanning Baud Rate 4800 21 = Scanning Baud Rate 9600 22 = Scanning Baud Rate 19200
<b>202</b>	Variable Status	0 = Good - Not Limited 1 = Poor Accuracy-Low Limited 2 = Poor Accuracy-High Limited 3 = Poor Accuracy-No Limited 4 = Manual/Fixed - Constant 5 = Bad - Constant 6 = Unknown
<b>203</b>	GC Type	0 = American 1 = European
<b>204</b>	GC US Alarm 1	0 = Normal 1 = A/D 0 Low 2 = A/D 0 High 3 = A/D 1 Low 4 = A/D 1 High 5 = A/D 2 Low 6 = A/D 2 High 7 = A/D Cal Low 8 = A/D Cal High 9 = D/A 1 Low 10 = D/A 1 High 11 = D/A 2 Low 12 = D/A 2 High 13 = D/A 3 Low 14 = D/A 3 High 15 = Analyzer Failure 16 = Checksum Failure
<b>205</b>	GC US Alarm 2	0 = Normal 1 = Power Failure 2 = RF % Deviation 3 = Preamp Failure 4 = Adjust Preamp
<b>206</b>	DP Flow Calculation Alarm	0 = RESERVED 1 = Invalid Input(s) 2 = Invalid Configuration

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Type	Description	Units
		3 = Calculation Error 4 = Boundary Error 5 = Invalid Station Assignment 6-8 = RESERVED 9 = Differential Pressure 10 = Pressure 11 = Temperature 12 = Flowing Density/Compressibility 13 = Base Density/Compressibility 14 = Relative Density 15 = Heating Value/Enthalpy 16 = Viscosity 17 = User Correction Factor 18 = Total/Increment 19 = Integral Multiplier Value 20-25 = RESERVED 26 = Beta Ratio 27 = DP/P Ratio 28 = Isentropic Exponent 29 = Reynolds Number 30 = Pressure Loss/Pressure Loss Ratio 31 = Alpha 32 = Expansion Factor
<b>207</b>	Property Calculation Alarm	0 = RESERVED 1 = Invalid Input(s) 2 = Invalid Configuration 3 = Calculation Error 4 = Boundary Error 5-8 = RESERVED 9 = Pressure 10 = Temperature 11 = Flowing Density/Compressibility 12 = Base Density/Compressibility 13 = Relative Density 14 = Heating Value/Enthalpy 15 = Composition 16 = Water Content 17 = Atmospheric Press/Gravitational Accel 18 = Viscosity 19 = Isentropic Exponent 20 = Speed of Sound 21-32 = RESERVED
<b>208</b>	Yes/No Option	0 = No 1 = Yes
<b>209</b>	Module Type	0 = Unknown 1 = HMI 2 = On-Board I/O 3 = Optional I/O 4 = Expanded I/O 5 = I/O Module

Type	Description	Units
		6-253 = RESERVED 254 = I/O Scan CPU 255 = Main CPU
<b>210</b>	Module Subtype	0 = None 1 = 8AIDIPI 2AO 2DO 2-3 = RESERVED 4 = 8AODO 5-31 = RESERVED 32 = 16DI 33 = 16DIPI 34 = 16DO 35-48 = RESERVED 49 = HART 4 50 = 4 COMM
<b>211</b>	Option Not Applicable	0 = Not Applicable
<b>212</b>	LCD Installed	0 = LCD Not Found 1 = LCD Detected
<b>213</b>	WiFi Installed	0 = WiFi Not Found 1 = WiFi Detected
<b>214</b>	Serial Port Module	0 = RS-232 1 = RS-485 2-Wire (No Termination) 2 = RS-485 2-Wire (Terminated)
<b>215</b>	Action Block Alarm Type	0 = Low 1 = Low Low 2 = High 3 = High High 4 = Rate of Change 5 = Other
<b>216</b>	Action Block Chain Type	0 = AND 1 = OR 2 = NAND
<b>217</b>	Action Block Chain to Status	0 = Block Status 1 = Chain Status 2 = Output Status
<b>218</b>	Current Bypasses Active	0 = None 1 = Local Latched 2 = Remote Latched 3 = Class B 4 = Class C 5 = Class B/C
<b>219</b>	4088 RTD Type	0 = RESERVED 1 = 3-wire 2 = 4-wire
<b>220</b>	Alarm Status RTD	0 = Normal 1 = Not Licensed 2 = Instance Inactive 3 = Comm Fail

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Type	Description	Units
		4 = Override Active 5 = In Alarm 6 = Point Fail 7 = Above URL 8 = Below LRL 9 = Input Frozen 10 = Type Mismatch
221	EU Scaling Mode	0 = Multi-Point Calibration 1 = EU Scaling
222	Alpha	0 = in./in.-°F 1 = mm/mm-°C 2 = mm/mm-K
223	Calculated Cd	0 = Flow Equation Standard 1 = Calibrated Discharge Coefficient Curve
224	Ethernet Support	0 = No Ethernet Support 1 = Ethernet Supported
225	Mass Heating Value	0 = Btu/lb 1 = MJ/kg
226	WiFi Antenna Type	0 = Internal Antenna 1 = External Antenna
227	Auto Adjust Initial Cycle	0 = Initial Cycle Complete 1 = Initial Cycle In Progress
228	Auto Adjust System Alarm	0 = Normal Flow 1 = No Flow / Loss of Both Pulses 2 = Leakage or Resonant No-Net Flow 3 = No Main Rotor Pulses 4 = No Sensing Rotor Pulses
229	Auto Adjust Flow Alarm	0 = Normal Flow 1 = Non-steady Flow
230	Auto Adjust Delta A Alarm	0 = Normal 1 = Low Warning 2 = High Warning 3 = Low Alarm 4 = High Alarm
231	Serial Port 1 Owner	0 = RESERVED 1 = DNP3/Modbus Slave 2 = DNP3 3 = Modbus Slave 4 = Modbus Master 5-7 = RESERVED
232	Serial Port 2 Owner	0 = RESERVED 1 = DNP3/Modbus Slave 2 = DNP3 3 = Modbus Slave 4 = Modbus Master 5-7 = RESERVED

Type	Description	Units
<b>233</b>	Serial Port 3 Owner	0 = RESERVED 1 = DNP3/Modbus Slave 2 = DNP3 3 = Modbus Slave 4 = Modbus Master 5-7 = MVS4088B
<b>234</b>	WiFi Port Owner	0-1 = RESERVED 2 = DNP3 3-7 = RESERVED
<b>235</b>	Ethernet Port Owner	0 = Debug 1 = DNP3/Modbus Slave 2 = DNP3 3 = Modbus Slave 4 = Modbus Master 5-7 = RESERVED
<b>236</b>	Months of Year	0 = RESERVED 1 = January 2 = February 3 = March 4 = April 5 = May 6 = June 7 = July 8 = August 9 = September 10 = October 11 = November 12 = December
<b>237</b>	GC Poll Alarm	0 = Normal 1 = Poll Failed 2 = Comp Code Match Error 3 = Poll Disabled 4 = Auto-config Fail
<b>238</b>	No Flow Option	0 = Time Between Pulses 1 = Flow Cut-off 2 = Flow Cut-off with accumulation
<b>239</b>	No Flow Status	0 = Not Flowing 1 = Flowing
<b>240</b>	Protocol	0 = None 1 = DNP3 2 = Modbus 3 = ROC 4 = BSAP 5 = FBxNet
<b>241</b>	String Type	0 = None 1 = Password
<b>242</b>	4088 Temperature	0 = °F 1 = °C

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Type	Description	Units
243	GC EU Alarm 1	0 = Normal 1 = Peak Overflow 2 = Unknown Error 3 = Peak Analysis Failure 4 = Chromat I/O Failure 5 = Controller Stack Overflow 6 = Undefined 7 = Undefined 8 = Peak Analysis Start 9 = Chromat I/O Start Failure 10 = Analog Input Failure 11 = Analog Input Failure 12 = Analog Input Failure 13 = Chromat Buffer Overflow 14 = Inputs Out of Range 15 = Preamp Failure 16 = Preamp Adjust
244	GC EU Alarm 2	0 = Normal 1 = Calibration Failure 2 = Auto Start Fail 3 = Alarm on 24Hr Averages 4 = Analysis Failure 5 = Auto Start Alarm
245	Pulse Rate	0 = Pulses/sec 1 = Pulses/min 2 = Pulses/hr 3 = Pulses/day
246	Event Log Config Type	0 = Combined Event Log 1 = Separate Legal and Non-Legal Event Logs 2 = Separate Verifiable & Exportable Logs 3 = BSAP Combined Alarm Event Log
247	Pressure Effect	0 = %/psi 1 = %/bar
248	IP Connection 1 2 3 Owner	0 = DNP3 Protocol 1 = Modbus Slave Protocol 2 = ROC Protocol 3 = BSAP Protocol
249	IP Connection 4 5 6 Owner	0 = Modbus Slave Protocol 1 = ROC Protocol 2 = BSAP Protocol
250	Screen Saver Password	0 = No Password Required 1 = Password Required
251	Alarm Format	0 = Standard Alarm Format 1 = Extended Alarm Format
252	Signal Name Format	0 = ControlWave 1 = Native 2 = Accol3
253	Meter Direction	0 = Forward



Type	Description	Units
		1 = Reverse
254	Alarm Status	0 = Normal 1 = In Alarm
255	Low Power Option	0 = Low Power Mode Not Available 1 = Low Power Mode Available
256	Database Recovery Option	0 = Restore to Database Defaults 1 = Restore from Flash Config File
257	Power Control Comm Port Option	0-2 = RESERVED 3 = All Comm Ports Enabled
258	Override Type Select	0 = Low 1 = High
259	Power Control Status	0 = Power Control Inactive 1 = Power Control Active 2 = Power Control Low Voltage 3 = Power Control Held by Comms
260	IP Connection 7 Owner	0 = Modbus Master Protocol
261	CPU Frequency Level	0 = Low Frequency 1 = Medium Frequency 2 = High Frequency
262	Log/Archive Array Format	0 = Logs as arrays not available 1 = Field Data Values 2 = TimeStamp (TS) + Field Data Values 3 = TS+Local/Global Seq#+Field Data Values 4 = TS2 (Days+Secs+20ms)+Field Data Values 5 = TS2+Seq#+Field Data Values 6 = Seq#+Field Data Values 7 = Field Data Values (Oldest -> Newest) 8 = TS+Field Data Values (Oldest -> Newest) 9 = TS+Seq#+Field Data Values (Oldest -> Newest) 10 = TS2+Field Data Values (Oldest -> Newest) 11 = TS2+S#+Field Data Values(Oldest -> Newest) 12 = S#+Field Data Values (Oldest -> Newest)
263	Base Pressure	0 = User 1 = 14.65 psi(a) 2 = 14.696 psi(a) 3 = 14.73 psi(a) 4 = 15.025 psi(a) 5 = 101.325 kPa(a) 6 = 0.101325 Mpa(a) 7 = 1.01325 bar(a)
264	Linear Flow Calculation Alarm	0 = RESERVED 1 = Invalid Input(s) 2 = Invalid Configuration 3 = Calculation Error 4 = Boundary Error 5 = Invalid Station Assignment 6-8 = RESERVED

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Type	Description	Units
		9 = Flow 10 = Pressure 11 = Temperature 12 = Flowing Density/Compressibility 13 = Base Density/Compressibility 14 = Relative Density 15 = Heating Value/Enthalpy 16 = Viscosity 17 = User Correction Factor 18 = Total/Increment 19 = Integral Multiplier Factor 20-25 = RESERVED 26 = K-factor/Meter Factor 27 = Mass Pressure Correction Factor 28-32 = RESERVED
265	Active DNP3 Map	0 = Default 1 = User Defined 2 = Auto Managed
266	Alarm Suppress State	0 = Off 1 = On
267	Memory Size	0 = Bytes 1 = Kilobytes 2 = Megabytes
268	Channel Type Select AO Only	0 = AO Only
269	Poll Intervals	0 = 1 second 1 = 500 ms 2 = 200 ms 3 = 100 ms 4 = 50 ms 5 = 20 ms 6 = 10 ms
270	Rack Size	0 = 8 Modules 1 = 16 Modules 2 = 24 Modules 3 = 32 Modules
271	Application Status	0 = Unloaded 1 = Load Requested 2 = Loaded 3 = Start Requested 4 = Running 5 = Stop Requested 6 = Stopped 7 = Terminate Requested 8 = Terminated 9 = Undefined
272	Application Exception Code	0 = None 1 = String Error 2 = Watchdog Exceeded

Type	Description	Units
		3 = Max CPU Load Exceeded 4 = System Error 5 = End Error 6 = Registration Failed
<b>273</b>	Application Control	0 = Idle 1 = Start 2 = Stop 3 = Load 4 = Clear
<b>274</b>	Task Status	0 = Stopped 1 = Started 2 = No License 3 = Library Version Error
<b>275</b>	RESERVED	0 = RESERVED
<b>276</b>	DI/PI Resistor Selection	0 = Pull Up 1 = Pull Down
<b>277</b>	RESERVED	0 = RESERVED
<b>278</b>	Flow Type	0 = Mass 1 = Volume
<b>279</b>	Liq LinMtr Linear Meter Type	0 = Turbine 1 = Coriolis 2 = Ultrasonic 3 = Positive Displacement
<b>280</b>	Rounding Option	0 = No Rounding 1 = Rounding Per API 12.2,Rounding.
<b>281</b>	Liq LinMtr Flow Calculation Alarm	0 = RESERVED 1 = Invalid Input(s) 2 = Invalid Configuration 3 = Calculation Error 4 = Boundary Error 5 = Invalid Station Assignment 6-8 = RESERVED 9 = Flow 10 = Pressure 11 = Temperature 12 = Flowing Density 13 = Base Density 14-17 = RESERVED 18 = Total/Increment 19-25 = RESERVED 26 = K-factor/Meter Factor 27 = Mass Pressure Correction Factor 28 = Water Cut 29 = Shrinkage Factor 30 = CTL/CPL 31 = NGL Factor/Flash Gas Factor 32 = RESERVED
<b>282</b>	Liq LinMtr Property Calculation Alarm	0 = RESERVED

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Type	Description	Units
		1 = Invalid Input(s) 2 = Invalid Configuration 3 = Calculation Error 4 = Boundary Error 5-8 = RESERVED 9 = Pressure 10 = Temperature 11 = Flowing Density 12 = Base Density/Compressibility 13-16 = RESERVED 17 = Atmospheric Press/Gravitational Accel 18-20 = RESERVED 21 = Critical Temp/Press 22-32 = RESERVED
283	Water Cut Method	0 = Dynamic 1 = Static
284	DO Low Side Switch	0 = Disable grounded output 1 = Enable grounded output
285	User Mode Selection 5	0 = Measured 1 = Override
286	PI Filter Mode	0 = Low Speed Filter 1 = Medium Speed Filter 2 = High Speed Filter
287	Busy Status	0 = Idle 1 = Busy
288	Personality Module Status	0 = Module inserted and valid 1 = Module not present 2 = Module not valid for this slot 3 = Module not calibrated 4 = Module EEPROM data corrupted
289	Personality Module Type	0 = Invalid personality board type 1 = CPU Personality Module 2 = CPU PM with WiFi 3-9 = RESERVED 10 = 12-point mixed I/O PM 11 = 10-point DI/DO PM 12 = 8-point AI/DI/PI PM 13 = 8-point AO/DO PM 14-32 = RESERVE 33 = 16-point DIPI PM 35-48 = RESERVED 49 = 4 Channel HART PM 50 = 4 Channel Comm PM
290	IP Connection Owner	0 = DNP3 Protocol 1 = Modbus Slave Protocol 2-3 = RESERVED 4 = HART Slave Protocol 5-9 = RESERVED
291	Serial Port Owner	0 = RESERVED

Type	Description	Units
		1 = DNP3/Modbus Slave 2 = DNP3 3 = Modbus Slave 4 = Modbus Master 5-7 = RESERVED
<b>292</b>	Serial Port Owner	0 = RESERVED 1 = DNP3/Modbus Slave 2 = DNP3 3 = Modbus Slave 4 = Modbus Master 5-6 = RESERVED 7 = MVS4088B 8 = RESERVED 9 = MVT3808/3508
<b>293</b>	Protocol	0 = None 1 = DNP3 2 = Modbus 3-4 = RESERVED 5 = FBxNet
<b>294</b>	Liquid Density	0 = lb/ft <sup>3</sup> 1 = kg/m <sup>3</sup> 2 = g/cc 3 = lb/MMCF 4 = lb/US gal 5 = kg/L 6 = lb/bbl 7 = RD 8 = °API
<b>295</b>	Water Density	0 = lb/ft <sup>3</sup> 1 = kg/m <sup>3</sup> 2 = g/cc 3 = lb/MMCF 4 = lb/US gal 5 = kg/L 6 = lb/bbl 7 = RD 8 = °API
<b>296</b>	Liquid Volume Total	0 = ft <sup>3</sup> 1 = m <sup>3</sup> 2 = MCF 3 = (k)m <sup>3</sup> 4 = MMCF 5 = BCF 6 = L 7 = US gal 8 = bbl
<b>297</b>	Water Volume Total	0 = ft <sup>3</sup> 1 = m <sup>3</sup> 2 = MCF

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Type	Description	Units
		3 = (k)m <sup>3</sup>
		4 = MMCF
		5 = BCF
		6 = L
		7 = US gal
		8 = bbl
<b>298</b>	Liquid Volume Rate	0 = ft <sup>3</sup> /s
		1 = ft <sup>3</sup> /min
		2 = ft <sup>3</sup> /h
		3 = ft <sup>3</sup> /d
		4 = MCF/s
		5 = MCF/min
		6 = MCF/h
		7 = MCF/d
		8 = m <sup>3</sup> /s
		9 = m <sup>3</sup> /min
		10 = m <sup>3</sup> /h
		11 = m <sup>3</sup> /d
		12 = (k)m <sup>3</sup> /s
		13 = (k)m <sup>3</sup> /min
		14 = (k)m <sup>3</sup> /h
		15 = (k)m <sup>3</sup> /d
		16 = MMCF/s
		17 = MMCF/min
		18 = MMCF/h
		19 = MMCF/d
		20 = BCF/s
		21 = BCF/min
		22 = BCF/h
		23 = BCF/d
		24 = L/s
		25 = L/min
		26 = L/h
		27 = L/d
		28 = US gal/s
		29 = US gal/min
		30 = US gal/h
		31 = US gal/d
		32 = bbl/s
		33 = bbl/min
		34 = bbl/h
		35 = bbl/d
<b>299</b>	Water Volume Rate	0 = ft <sup>3</sup> /s
		1 = ft <sup>3</sup> /min
		2 = ft <sup>3</sup> /h
		3 = ft <sup>3</sup> /d
		4 = MCF/s
		5 = MCF/min
		6 = MCF/h
		7 = MCF/d
		8 = m <sup>3</sup> /s

Type	Description	Units
		9 = m <sup>3</sup> /min 10 = m <sup>3</sup> /h 11 = m <sup>3</sup> /d 12 = (k)m <sup>3</sup> /s 13 = (k)m <sup>3</sup> /min 14 = (k)m <sup>3</sup> /h 15 = (k)m <sup>3</sup> /d 16 = MMCF/s 17 = MMCF/min 18 = MMCF/h 19 = MMCF/d 20 = BCF/s 21 = BCF/min 22 = BCF/h 23 = BCF/d 24 = L/s 25 = L/min 26 = L/h 27 = L/d 28 = US gal/s 29 = US gal/min 30 = US gal/h 31 = US gal/d 32 = bbl/s 33 = bbl/min 34 = bbl/h 35 = bbl/d
<b>300</b>	Serial Port Owner	0-1 = RESERVED 2 = DNP3 3-7 = RESERVED
<b>301</b>	Operational Trip Point 3000	0 = RESERVED 1 = Solar Supply 2 = DC Supply
<b>302</b>	Comm Port Instance	0 = Serial Port 1 1 = Serial Port 2 2 = Serial Port 3 3 = Serial Port 4 4 = Ethernet Port 1 5 = Ethernet Port 2
<b>303</b>	FB3000 DO Status	0 = Normal 1 = Not Licensed 2 = Instance Inactive 3 = Comm Fail 4 = Override Active 5 = In Alarm 6 = Point Fail 7 = Auto Read Parameter Invalid 8 = SPO Parameter Invalid 9 = Termination Missing 10 = Status Alarm

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Type	Description	Units
		11 = Hardware Fail
304	FB3000 DI Status	0 = Normal 1 = Not Licensed 2 = Instance Inactive 3 = Comm Fail 4 = Override Active 5 = In Alarm 6 = Point Fail 7 = Termination Missing 8 = Status Alarm 9 = Hardware Fail
305	4088 Config Type	0 = None 1 = EMV4088B 2 = MVT3808/3508
306	Relative Density	0 = RD
307	Calc Availability	0 = Not Available 1 = Available
308	Serial Port Mode	0 = RESERVED 1 = RS-485 2-Wire (No Termination) 2 = RS-485 2-Wire (Terminated)
309	Application Package Status	0 = Unloaded 1 = Loaded
310	Time Synchronization Deadband	0 = Seconds 1 = Milliseconds
311	Reset Counter	0 = Idle 1 = Reset
312	HART Comm Mode	0 = Disabled 1 = Point to Point 2 = Multidrop
313	HART Master Type	0 = Primary 1 = Secondary
314	HART Scan Status	0 = Not scanning 1 = Scanning 2 = Dual Master 3 = Pass thru 4 = Burst mode
315	HART Passthru Mode	0 = Disable 1 = Strip 2 = Full
316	HART Poll Mode	0 = Skip 1 = PV only 2 = All Process 3 = All Dynamic
317	HART Fault Selection	0 = Fault 1 = Last Good
318	Module Subtype - Extended Rack	0 = None



Type	Description	Units
		1 = 8AIDIPI 2AO 2DO 2-3 = RESERVED 4 = 8AODO 5-31 = RESERVED 32 = 16DI 33 = 16DIPI
<b>319</b>	Historical Log Timestamp Mode	0 = Start of Period 1 = End of Period
<b>320</b>	Density Option	0 = Station Base Density 1 = Meter Observed Density 2 = Station Header Density
<b>321</b>	User Mode Selection 6	0 = External 1 = Override 2 = Calculated
<b>322</b>	Product Type	0 = Crude Oil 1 = Refined Products 2 = RESERVED 3 = Lubricating Oil 5 = RESERVED 6 = Light Hydrocarbon
<b>323</b>	Oil Flow Calculation Method	0 = API Ch. 12.2 1 = API Ch. 20.1
<b>324</b>	API Ch 11 Volume Correction Method	0 = API 11.1 2007
<b>325</b>	Water Option	0 = Use Oil Correction Factor for Water 1 = Use Separate Correction Factor for Water
<b>326</b>	IBP Timesynch Option	0 = Disable 1 = Enable 2 = Require NHP
<b>327</b>	FBxNet Device Connection Status	0 = Not Started 1 = Connecting 2 = Resolving 3 = Online 4 = Offline 5 = Invalid 6 = Connection Timeout 7 = Transmit Error 8 = Response Timeout 9 = Resolving Failure 10 = Read Failure 11 = Disabled 12 = Online with Parameter Error(s) 13 = No Account Found 14 = Authentication Failure 15 = Authenticating
<b>329</b>	Module Mode	0 = Not Installed 1 = Boot 2 = Normal 3 = Not Licensed

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Type	Description	Units
		4 = Communcation Failure 5 = Module Failure 6 = Power Off 7 = Firmware Mismatch 8 = Module Mismatch 9 = Firmware Error
330	Meter Status	0 = Normal 1 = Batch Active 2 = Batch Idle
331	Station Status	0 = Normal 1 = Batch Active 2 = Batch Idle
332	History Option	0 = Disable 1 = Enable 2 = Enable / Break with Batch
333	Batch Option	0 = Disable 1 = Enable
334	RESERVED	
335	RESERVED	
336	RESERVED	
337	RESERVED	
338	RESERVED	
339	Batch Restart Option	0 = End Current Start Next 1 = Continue Current 2 = Stop Current
332	RESERVED	
333	RESERVED	
334	RESERVED	
335	RESERVED	
336	RESERVED	
337	RESERVED	
338	RESERVED	
339	RESERVED	
340	Connection File Status	0 = No Error 1 = File Open 2 = Column Mismatch 3 = Missing Required Column 4 = Exceeded Max Data Points 5 = Empty Subscriber Tag 6 = Invalid FBxNet Data Instance 7 = Missing or Invalid Required Value 8 = Duplicate FBxNet Data Instance 9 = Not Configured 10 = Exceeded Publisher Fault

Type	Description	Units
<b>341</b>	FBxNet Poll Cycle	0 = Off 1 = On
<b>342</b>	Device Status	0 = Normal 1 = PV Override 2 = Point Fail 3 = Device Comm Fail 4 = PV Above URL 5 = PV Below LRL 6 = Termination Missing 7 = Module Comm Fail 8 = Not Scanning 9 = In Alarm 10 = Device Malfunction 11 = SV Override 12 = TV Override 13 = QV Override
<b>343</b>	HART Object Status	0 = Normal 1 = In Alarm 2 = Fault 3 = Override 4 = No Device 5 = Device Comm Error
<b>344</b>	HART Units	0 = RESERVED 1 = inH2O 2 = inHg 3 = ftH2O 4 = mmH2O 5 = mmHg 6 = psi 7 = bar 8 = mbar 9 = g/cm <sup>3</sup> 10 = kg/cm <sup>3</sup> 11 = Pa 12 = kPa 13 = Torr 14 = at 15 = ft <sup>3</sup> 16 = gal/min 17 = l/min 18 = gal (UK)/min 19 = m <sup>3</sup> /h 20 = ft/s 21 = m/s 22 = gal/s 23 = Mgal/d 24 = l/s 25 = Ml/d 26 = ft <sup>3</sup> /s 27 = ft <sup>3</sup> /d

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Type	Description	Units
		28 = m <sup>3</sup> /s
		29 = m <sup>3</sup> /d
		30 = gal (UK)/h
		31 = gal (UK)/d
		32 = °C
		33 = °F
		34 = °R
		35 = k
		36 = mV
		37 = ohms
		38 = Hz
		39 = mA
		40 = gal
		41 = l
		42 = gal(UK)
		43 = m <sup>3</sup>
		44 = ft
		45 = m
		46 = bbl
		47 = in
		48 = cm
		49 = mm
		50 = min
		51 = s
		52 = h
		53 = d
		54 = cSt
		55 = cP
		56 = uSiemen
		57 = %
		58 = V
		59 = pH
		60 = g
		61 = kg
		62 = t
		63 = lb
		64 = ton
		65 = ton(UK)
		66 = mSiemen/cm
		67 = uSiemen/cm
		68 = N
		69 = J
		70 = g/s
		71 = g/min
		72 = g/h
		73 = kg/s
		74 = kg/min
		75 = kg/h
		76 = kg/d
		77 = t/min
		78 = t/h

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Type	Description	Units
		79 = t/d
		80 = lb/s
		81 = lb/min
		82 = lb/h
		83 = lb/d
		84 = ton/min
		85 = ton/h
		86 = ton/d
		87 = ton(UK)/h
		88 = ton(UK)/d
		89 = DTH
		90 = SG
		91 = g/cm <sup>3</sup>
		92 = kg/cm <sup>3</sup>
		93 = lb/gal
		94 = lb/ft <sup>3</sup>
		95 = g/ml
		96 = kg/l
		97 = g/l
		98 = lb/in <sup>3</sup>
		99 = ton/yd <sup>3</sup>
		100 = °Tw
		101 = °Bx
		102 = B°
		103 = B° (light)
		104 = degrees API
		105 = % sol/wt
		106 = % sol/vol
		107 = °Bg
		108 = proof/vol
		109 = proof/mass
		110 = bu
		111 = yd <sup>3</sup>
		112 = ft <sup>3</sup>
		113 = in <sup>3</sup>
		114 = in/s
		115 = in/min
		116 = ft/min
		117 = °/s
		118 = rps
		119 = rpm
		120 = m/h
		121 = nM <sup>3</sup> /h
		122 = NI/hr
		123 = SCF/min
		124 = bbl (US)
		125 = oz
		126 = ftlbf
		127 = kW
		128 = kWh
		129 = hp

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Type	Description	Units
		130 = ft <sup>3</sup> /h
		131 = m <sup>3</sup> /min
		132 = bbl/s
		133 = bbl/min
		134 = bbl/h
		135 = bbl/dd
		136 = gal/h
		137 = gal(UK)/s
		138 = i/h
		139 = ppm
		140 = Mcal(th)/h
		141 = MJ/h
		142 = Btu/h
		143 = degrees
		144 = radian
		145 = inH2O(60°F)
		146 = ug/l
		147 = ug/m <sup>3</sup>
		148 = %
		149 = vol%
		150 = % Stm Qual
		151 = ft-16
		152 = ft <sup>3</sup> /lb
		153 = pF
		154 = ml/l
		155 = ul/l
		156 = dB
		157-159 = RESERVED
		160 = %P
		161 = %LEL
		162 = Mcal(th)
		163 = Kilo ohms
		164 = MJ
		165 = Btu
		166 = Nm <sup>3</sup>
		167 = N1
		168 =SCF
		169 = ppb
		170-234 = RESERVED
		235 = gal/d
		236= h1
		237 = MPa
		238 = inH2O(4°C)
		239 = mmH2O(4°C)
		240-249 = RESERVED
		250 = NOT USED
		251 = NONE
		252 = RESERVED
		253 = Special
<b>345</b>	EFM Hist Time Format	0 = HHMM 1 = HHMMSS

Type	Description	Units
346	Publisher Comm Enable	0 = Disabled 1 = Enable Read/Write 2 = Enable Read Only
347	AO/DO Channel Type Select	0 = AO 1 = DO
348	FBxNData Input Status	0 = Normal 1 = Fault 2 = Override 3 = RESERVED 4 = Alarm 5-16 = RESERVED 17 = Comm Failure
349	Apply Resize Values	0 = Good 1 = Invalid User Config 2 = Resize in Progress 3 = Last Resize Failed 4 = Transaction In Progress 5 = Database Instance Full
350	System Verification Status	0 = System Unverified 1 = System Verified
351	Base Density Units & Temperature	0-10 = RESERVED 11 = kg/m <sup>3</sup> @60°F 12 = kg/m <sup>3</sup> @15°C 13 = kg/m <sup>3</sup> @20°C 14 = kg/m <sup>3</sup> @30°C 15 = kg/m <sup>3</sup> @0°C 16-21 = RESERVED 22 = g/cc@15°C 23 = g/cc@20°C 24 = g/cc@30°C 25 = g/cc@0°C 26-70 = RESERVED 71 = RD@60°F 72 = RD@15°C 73 = RD@20°C 74 = RD@30°C 75 = RD@0°C 76-80 = RESERVED 81 = °API@60°F
352	License Control	0 = Licensed 1 = Unlicensed
353	HART Pressure Units	0 = psi 1 = kPa 2 = MPa 3 = bar 4 = kg/cm <sup>3</sup> 5 = inH2O@60°F 6 = inH2O@68°F

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Type	Description	Units
		7 = mbar
354	Shrinkage Factor Option	0 = Apply to Gross Standard Volume 1 = Apply to Net Standard Volume
355	Legal Event Lock Status	0 = Unlocked 1 = Locked
357	Compressibility Factor	0 = 1/psi 1 = 1/kPa 2 = 1/MPa 3 = 1/bar 4 = 1/(kg/cm <sup>2</sup> )
358	Flow Input Option	0 = Flow Input Only 1 = External Accumulator Only 2 = External Accumulator with Flow Rate
359	Flow Time Units	0 = s 1 = min
360	Fault Health Configuration	0 = Normal 1 = Primary Inputs - Fault 2 = Primary Inputs - Alarm 3 = Primary Inputs - Override 4 = Calculation Alarms 5 = Flow Rate Alarms 6 = Config Checksum Fault 7 = System Fault
361	Batch Trigger Options	0 = None 1 = Continuous Batching
362	Start Batch Command	0 = None 1 = Start Batch
363	End Batch Command	0 = None 1 = End Batch
364	RESERVED	
365	RESERVED	
366	Rack Size Exp	0 = 4 Modules 1 = 8 Modules 2 = 12 Modules 3 = 16 Modules 4 = 20 Modules 5 = 24 Modules 6 = 28 Modules 7 = 32 Modules
367	CSV Option	0 = Database Objects 1 = Use CSV Files
368	CSV Parse Status	0 = No Error 1 = No Mapping Found 2 = Column Mismatch 3 = Missing Required Column 4 = Exceeded Max Data 5 = Invalid Row Data 6 = Misc Error



Type	Description	Units
		7 = Duplicate Data 8 = In Progress
<b>369</b>	Reloading Maps	0 = Ready 1 = In Progress
<b>370</b>	Integrity Status	0 = Disabled 1 = Not Checked 2 = Valid 3 = Fail
<b>371</b>	IBP Header Option	0 = Expanded Header 1 = Expanded Header Ignore Address 2 = Short Header
<b>372</b>	Inegrity Status	0 = Disabled 1 = Not Checked 2 = Computing 3 = Valid 4 = Fail
<b>373</b>	Hexidecimal Data	0 = Hex
<b>374</b>	Trans Hist Data Format	0 = Numeric 1 = String
<b>375</b>	Trans Grp Conf Stat	0 = Done 1 = In Progress
<b>376</b>	RESERVED	RESERVED
<b>377</b>	Trans Trigger Subtype	0 = None 1 = Batch 2 = Hourly 3 = Daily
<b>378</b>	Trans Trigger Status	0 = Not Started 1 = In Progress 2 = Stopped 3 = Invalid Trigger 4 = Short Trigger 5 = Trigger Limit Reached 6 = No Points Added
<b>379</b>	Trans Trigger Signal	0 = None 1 = Start 2 = Next 3 = Stop
<b>380</b>	Trans Hist Status	0 = Stopped 1 = In Progress
<b>381</b>	Trace Status	0 = Ready 1 = Start 2 = Create File 3 = Busy 4 = Clean Up
<b>382</b>	Transactional History Group Use	0 = General 1 = Liquid Linear Meter Batching 2 - 100 RESERVED 101 = PMWT Well Test Report

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Type	Description	Units
		102 = PMWO Cycle Record 103 = PMWO Gas Lift Test Record 104 = PMFL Auto-Haul Record 105 = PMFL LoadOut Record
383	ROC Long Credentials	0 = ROC Short Credentials 1 = ROC Long Credentials
384	Trans History Type	0 = Average 1 = Total / Difference 2 = End Snapshot 3 = Minimum 4 = Maximum 5 = Integration 6 = Start Snapshot
385	Redundancy Status	0 = Not Enabled 1 = Active
386	Standby Status	0 = Not Connected 1 = Side Load 2 = Ready
387	Active Slot	0 = Slot 1 1 = Slot 2
388	Meter runs reserved	
389	Meter runs reserved	
390	Meter runs reserved	
391	Meter runs reserved	
392	Meter runs reserved	
393	Meter runs reserved	
394	Meter runs reserved	
395	Meter runs reserved	
396	Meter runs reserved	
397	Meter runs reserved	
398	Meter runs reserved	
399	Meter runs reserved	
400	Port Owner	0-6 = RESERVED 7 = MVS4088B 8-19 = RESERVED 20 = None
402	DI Channel Type Select	0 = DI
403	DI/PI Channel Type Select	0 = DI 1 = PI
404	Link	0 = Disable 1 = ETH1 2 = ETH2 3 = Backplane

## 5.2 Object Parameters



### Important

The system determines all object references (parameter names that include “\_OBJ” such as *ALM\_OBJ*, *CAL\_OBJ*, *STATION\_OBJ*, and so on) **only** at startup and does not dynamically update these object references until the next time you restart the device. If you assign a meter to a different station, you **must** restart that device – which causes a system reinitialization – before the system can acknowledge, for example, that Linear Mtr\_1.STATION\_OBJ should now point to Station\_2.PB-SEL.

The tables in this section list the parameters associated with each object. Parameters include:

Field	Description																
Name	The parameter’s system identifier.																
Description	Description for the parameter, including (if appropriate) any values.																
Data Type	Type of data associated with the parameter. Valid values include: <table border="1"> <tbody> <tr> <td>BIN</td> <td>Binary value – bitmask representing the on/off state of multiple properties; the numeric value indicates the number of bits (for example, <b>BIN32</b> is a 32-bit binary)</td> </tr> <tr> <td>ByteArray</td> <td>Byte array; the numeric value indicates the number of bytes (for example, <b>ByteArray32</b> is a 32-byte array)</td> </tr> <tr> <td>DOUBLE</td> <td>64-bit floating point number</td> </tr> <tr> <td>ENUM</td> <td>Enumeration; the numeric value indicates the number of bits (for example, <b>ENUM16</b> is a 16-bit long enumeration)</td> </tr> <tr> <td>FLOAT</td> <td>32-bit floating point number</td> </tr> <tr> <td>INT</td> <td>Signed integer; the numeric value indicates the number of bits (for example, <b>INT16</b> is a 16-bit signed integer)</td> </tr> <tr> <td>OBJREF</td> <td>Object reference</td> </tr> <tr> <td>PRMREF</td> <td>Parameter reference</td> </tr> </tbody> </table>	BIN	Binary value – bitmask representing the on/off state of multiple properties; the numeric value indicates the number of bits (for example, <b>BIN32</b> is a 32-bit binary)	ByteArray	Byte array; the numeric value indicates the number of bytes (for example, <b>ByteArray32</b> is a 32-byte array)	DOUBLE	64-bit floating point number	ENUM	Enumeration; the numeric value indicates the number of bits (for example, <b>ENUM16</b> is a 16-bit long enumeration)	FLOAT	32-bit floating point number	INT	Signed integer; the numeric value indicates the number of bits (for example, <b>INT16</b> is a 16-bit signed integer)	OBJREF	Object reference	PRMREF	Parameter reference
BIN	Binary value – bitmask representing the on/off state of multiple properties; the numeric value indicates the number of bits (for example, <b>BIN32</b> is a 32-bit binary)																
ByteArray	Byte array; the numeric value indicates the number of bytes (for example, <b>ByteArray32</b> is a 32-byte array)																
DOUBLE	64-bit floating point number																
ENUM	Enumeration; the numeric value indicates the number of bits (for example, <b>ENUM16</b> is a 16-bit long enumeration)																
FLOAT	32-bit floating point number																
INT	Signed integer; the numeric value indicates the number of bits (for example, <b>INT16</b> is a 16-bit signed integer)																
OBJREF	Object reference																
PRMREF	Parameter reference																

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Field	Description
TIME	Number of seconds since 01 January 2000 @ 00:00:00 (accounting for the 2038 issue)
UC	Character string with null termination. Valid values are:
UC10	10-character string with null termination (11 bytes max)
UC20	20-character string with null termination (21 bytes max)
UC30	30-character string with null termination (31 bytes max)
UC40	40-character string with null termination (41 bytes max)
UINT	Unsigned integer; the numeric value indicates the number of bits (for example, <b>UINT16</b> is a 16-bit unsigned integer)
Unknown	Data type is unknown
Range	Indicates the range of possible values for the parameter (if applicable). This value uses the format [InstanceNumber]-[RangeLow]->[RangeHigh], where <b>3 - 1-&gt;1</b> means the third instance has a range of 1 through 7
Default	Indicates the default value for the parameter.
Default Measurement Type	Indicates (for ENUM16 and BIN data types) the measurement type used for possible values. For other data types, indicates the default units for the parameter and the associated measurement type.
Access (by Role)	Indicates the overall accessibility of the parameter by role. Valid values are R/O (the parameter can only be read) and R/W (the parameter can be modified if the user has the proper role access).
Version	Indicates the version at which the parameter was introduced.
Other Attributes	Identifies any other attributes associated with the parameter. Values can include:
Log Changes	The system logs any changes to the parameter in the Event log.
Legal	This parameter affects the calculation of flow rates, totals, and/or averages. The system logs any user changes to this parameter to the legal event log.

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Field	Description
Verified	Changing the parameter value requires additional verification by the system (beyond range checking). When a new value is written to the parameter, it updates the parameter status to indicate the value is undergoing verification. Once verification is complete, the system updates the parameter status to indicate the value has been verified.
Non-persistent	Value is set and used only at runtime and does not persist across warm/cold starts or power cycles.

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## 5.3 Action Blk Parameters

**Description:** The Action Blk object provides the parameters for configuring programming components that check a basic logic condition and use the result to activate effects or perform other actions.

**Number of Instances:** Between 0 and 100 instances may exist; by default, 48 instances exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-2: Action Blk Parameters**

Action Blk								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "Action Blk_X" (where X is instance number between 1 and 100)		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0 → 5	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
DESC	Description	UC20		Instance: "Action Blk_X" (where X is instance number between 1 and 100)		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes

Action Blk								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
ACTION_BLK_ENABLE	Enable Switch 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
ACTION_BLK_STATUS	Action Block Activation Status 0 - Inactive 1 - Active	ENUM16	0→1	Inactive (0)	Action Block Status (166)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
VAR_1_DESC	Variable 1 Description	UC20				<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
VAR_1_POINT	Variable 1 Input	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
VAR_1_VAL	Variable 1 Value	FLOAT		0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	
VAR_2_DESC	Variable 2 Description	UC20				<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes

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Action Blk								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
VAR_2_POINT	Variable 2 Input	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
VAR_2_VAL	Variable 2 Value	FLOAT		0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	
OPERATOR	Operator 0 - Greater Than 1 - Less Than 2 - Equal To 3 - Greater Than Or Equal To 4 - Not Equal To 5 - Less Than Or Equal To 6 - AND (Bitwise) 7 - OR (Bitwise) 8 - Watchdog 9 - Soft Timer	ENUM16	0 → 9	Greater Than (0)	Action Block Operators (167)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
RESULT_DEADBAND	Deadband EU	FLOAT	≥ 0	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
TRIP_STATUS	Basic Logic Block Status 0 - Inactive 1 - Active	ENUM16	0 → 1	Inactive (0)	Action Block Status (166)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	



<b>Action Blk</b>								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DELAY_SEC	Activation Delay	UINT16		0	s (17-0)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
ELAPSED_SEC	Elapsed Delay	UINT16		0	s (17-0)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
BYPASSES_ACTIVE	Current Bypasses Active 0 - None 1 - Local Latched 2 - Remote Latched 3 - Class B 4 - Class C 5 - Class B/C	BIN8		None	Current Bypasses Active (218)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
BYPASS_LOCAL	On Demand Local Bypass 0 - Disable 1 - Enable	ENUM16	0 → 1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
REMOTE_BYPASS_BLK_1	Block 1	UINT16	0 → 48	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
REMOTE_BYPASS_TYPE_1	Type 0 - Latched 1 - Class B 2 - Class C 3 - Class B / C	ENUM16	0 → 3	Latched (0)	Action Block Bypass Types (168)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
REMOTE_BYPASS_BLK_2	Block 2	UINT16	0 → 48	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes

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Action Blk								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
REMOTE_BYPASS_TYPE_2	Type 0 - Latched 1 - Class B 2 - Class C 3 - Class B / C	ENUM16	0 → 3	Latched (0)	Action Block Bypass Types (168)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
REMOTE_BYPASS_BLK_3	Block 3	UINT16	0 → 48	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
REMOTE_BYPASS_TYPE_3	Type 0 - Latched 1 - Class B 2 - Class C 3 - Class B / C	ENUM16	0 → 3	Latched (0)	Action Block Bypass Types (168)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
CLASS_B_DELAY_SEC	Preset Delay Time	UINT16		300	s (17-0)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
CLASS_B_ELAPSED_SEC	Elapsed Time	UINT16		0	s (17-0)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
CLASS_C_DEADBAND	Deadband EU	FLOAT		0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
CLASS_C_DELAY_SEC	Preset Delay Time	UINT16		10	s (17-0)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes

Action Blk								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CLASS_C_ELAPSED_SEC	Elapsed Time	UINT16		0	s (17-0)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
BYPASS_BLK_STATUS	Bypass Block Trip Status 0 - Inactive 1 - Active	ENUM16	0 → 1	Inactive (0)	Action Block Status (166)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
CHAIN_BLK	Chain To Action Block	UINT8	0 → 48	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
CHAIN_TO_BLK_STATUS	Chain To Block Status 0 - Block Status 1 - Chain Status 2 - Output Status	ENUM16	0 → 2	Output Status (2)	Action Block Chain To Status (217)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	
CHAIN_TYPE	Logic Type 0 - AND 1 - OR 2 - NAND	ENUM16	0 → 2	AND (0)	Action Block Chain Type (216)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
CHAIN_FIRST_OUT	Chain First Out Block	UINT16		0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	
CHAIN_IS_END	End Of Chain 0 - No 1 - Yes	ENUM16	0 → 1	No (0)	Yes/No Option (208)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes

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Action Blk								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CHAIN_DELAY_SEC	Preset Delay Time	UINT16		0	s (17-0)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
CHAIN_ELAPSED_SEC	Elapsed Time	UINT16		0	s (17-0)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
CHAIN_BLK_STATU S	Chain Block Trip Status 0 - Inactive 1 - Active	ENUM16	0 → 1	Inactive (0)	Action Block Status (166)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
ALARM_LOG_OPTION	Alarm Logging Option 0 - None 1 - Alarm on Active 2 - Alarm on Inactive	BIN8		None	Action Block Alarm Option (169)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
ALARM_TYPE	Alarm Type 0 - Low 1 - Low Low 2 - High 3 - High High 4 - Rate of Change 5 - Other	ENUM16	0 → 5	Low (0)	Action Block Alarm Type (215)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
EVENT_LOG_OPTIO N	Event Logging Option 0 - None 1 - Event on Active 2 - Event on Inactive	BIN8		None	Action Block Event Option (170)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
EVENT_LOG_MESSAGE	Event Description	UC40		Instance: "Action Blk_X" (where X is instance number between 1 and 100)		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes

Action Blk								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
ACTION_TRIP_EVENT	Condition to Trip Action Block 0 - True If Block True 1 - True If Chain True 2 - True If Either True 3 - True If Both True	ENUM16	0 → 3	True If Block True (0)	Action Block Trip Logic (171)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
ACTION_TRIP_STATUS	Output Block Trip Status 0 - Inactive 1 - Active	ENUM16	0 → 1	Inactive (0)	Action Block Status (166)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
ACTION_TYPE	Output Type Triggered 0 - No Action 1 - Effect 2 - Binary Action 3 - Move Value 4 - Load Value 5 - Write Value	ENUM16	0 → 5	No Action (0)	Action Block Action Type (172)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
ACTION_POINT	Output Action Point	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
ACTION_DO_BEHAVIOR	Boolean Behavior 0 - Force 1 True & 0 False 1 - Force 0 True & 1 False 2 - Poke 1 True 3 - Poke 0 True 4 - Poke 1 True & 0 False 5 - Poke 0 True & 1 False 6 - Force 1 True & Poke 0 False 7 - Force 0 True & Poke 1 False 8 - Force 1 True 9 - Force 0 True	ENUM16	0 → 9	Force 1 True & 0 False (0)	Discrete Action Type (173)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes

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Action Blk								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
LINK_1_EFFECT	Effect 1 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
LINK_2_EFFECT	Effect 2 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
LINK_3_EFFECT	Effect 3 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
LINK_4_EFFECT	Effect 4 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
LINK_5_EFFECT	Effect 5 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
LINK_6_EFFECT	Effect 6 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes

Action Blk								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
LINK_7_EFFECT	Effect 7 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
LINK_8_EFFECT	Effect 8 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
LINK_9_EFFECT	Effect 9 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
LINK_10_EFFECT	Effect 10 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
LINK_11_EFFECT	Effect 11 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
LINK_12_EFFECT	Effect 12 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes

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Action Blk								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
LINK_13_EFFECT	Effect 13 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
LINK_14_EFFECT	Effect 14 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
LINK_15_EFFECT	Effect 15 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
LINK_16_EFFECT	Effect 16 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
DELAY_SEC_LONG	Activation Delay Long	UINT32		0	s (17-0)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.3.0.XXX	Log Changes
ELAPSED_SEC_LONG	Elapsed Delay Long	UINT32		0	s (17-0)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.3.0.XXX	
LINK_17_EFFECT	Effect 17 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.3.0.XXX	Log Changes



Action Blk								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
LINK_18_EFFECT	Effect 18 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.3.0.XXX	Log Changes
LINK_19_EFFECT	Effect 19 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.3.0.XXX	Log Changes
LINK_20_EFFECT	Effect 20 0 - Disable	ENUM16	0 → 100	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.3.0.XXX	Log Changes

## 5.4 AI Parameters

**Description:** The AI object provides the parameters for configuring analog inputs.

**Number of Instances:** 248 instances may exist (8 for each MIO module).

**Storage Location:** Saved to internal configuration memory.

**Table 5-3: AI Parameters**

AI								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0 → 5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
MOD_LOC	Module Location	UINT8		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CHANNEL	Channel	UINT8		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

AI								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DESC	Description	UC20		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
UNITS	Units 0 - % 2 - ppm	ENUM16	0 → 35	0%	Ratio (18)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
UNITS_TYPE	Unit Enumeration Selection 0 - Unitless 2 - Absolute Pressure 3 - Temperature 4 - Density 5 - Volume Heating Value 6 - Dynamic Viscosity 7 - Linear (Short) 8 - Linear (Long) 12 - Volume Rate 13 - Mass Rate 14 - Energy Rate 15 - Current 16 - Voltage 18 - Percentage 19 - Acceleration 21 - Water Content 23 - Resistance 26 - Differential Pressure 29 - Gauge Pressure 225 - Mass Heating Value 306 - Relative Density	ENUM16	0→306	Percentage (18)	AI Units Type (178)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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AI								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CONV_TYPE	Current/Voltage Selection 0 - Current 1 - Voltage 2 - Disabled	ENUM16	0 → 2	Disabled (2)	AI Resistor Selection (124)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
RAW	Raw Value	UINT32		0	A/D Counts (127-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
LIVE	Live Value	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
OVRD	Override Value	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FAULT	Fault Value	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LAST_GOOD	Last Good Value	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
SELECTED	Selected Value	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

AI								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
USER_MODE	Operation Mode 0 - Live 1 - Override	ENUM16	0 → 1	Live (0)	User Selection (31)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FAULT_MODE	Fault Mode 0 - Fault 1 - Last Good	ENUM16	0 → 1	Fault (0)	IO Fault Selection (136)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ACTUAL_MODE	Actual Mode 0 - Live 1 - Auto 2 - Auto Read 3 - Override 4 - Calibration 5 - Fault 6 - Last Good 7 - Last Hour Average 8 - Ramp to Fault Value 9 - Ramp to Last Hour Avg	ENUM16		Live (0)	Actual Mode (125)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
DAMPING_FACTOR	Damping Time	FLOAT	0 → 60	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CLIP_MODE	Clipping Mode 0 - Disable 1 - Enable	ENUM16	0 → 1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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AI								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CLIP_HIGH_LIMIT	High Clipping Limit	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> <li>▪ Verified</li> </ul>
CLIP_LOW_LIMIT	Low Clipping Limit	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> <li>▪ Verified</li> </ul>
AVG_PERIOD	Averaging Period	FLOAT	0.25 → 60	1	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ALM_OBJ	Alarm Reference	ObjectRef	Varies by instance			<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
URL	Upper Range Limit	UINT32		0	A/D Counts (127-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
LRL	Lower Range Limit	UINT32		0	A/D Counts (127-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
LOW_EU	Low Reading EU	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> <li>▪ Verified</li> </ul>

AI								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
HIGH_EU	High Reading EU	FLOAT		100	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> <li>▪ Verified</li> </ul>
AI_RAW_0_PERCENT	Adjusted A/D 0 Percent	UINT32		0	A/D Counts (127-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
AI_RAW_100_PERCENT	Adjusted A/D 100 Percent	UINT32		0	A/D Counts (127-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MFG_STATUS	Factory Calibration Status 0 - Invalid 1 - Valid	ENUM16		Invalid (0)	Factory Calibration Status (128)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
MFG_DATE_TIME	Factory Calibration Date	Time		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
SCALE_MODE	EU Scaling Mode 0 - Multi-Point Calibration 1 - EU Scaling	ENUM16	0 → 1	Multi-Point Calibration (0)	EU Scaling Mode (221)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CAL_OBJ	Calibration Reference	ObjectRef		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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AI								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
INPUT_STATUS	Input Health Status 0 - Normal 1 - Not Licensed 2 - Instance Inactive 3 - Comm Fail 4 - Override Active 5 - In Alarm 6 - Point Fail 7 - Above Calibration Limit 8 - Below Calibration Limit 9 - Input Frozen 10 - Input Clipped 11 - Factory Calibration Invalid 12 - User Calibration Invalid 13 - Disabled 14 - Termination Missing 15 - Hardware Fail	BIN16		Normal	AI Status (129)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
LAST_HOUR_AVERAGE	Last Hour Average Value	Float		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor"	2.5.0.XXX	Legal
RAMP_DURATION	Ramp Duration	Float	0 → 60	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>



## 5.5 AICal Parameters

**Description:** The AICal object provides the parameters for analog input calibration.

**Number of Instances:** 248 instances may exist (8 for each MIO module).

**Storage Location:** Saved to internal configuration memory.

**Table 5-4: AICal Parameters**

AICal								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0 → 5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
MOD_LOC	Module Location	UINT8		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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AICal								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CHANNEL	Channel	UINT8		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
DESC	Description	UC20		Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
TIMEOUT	Inactivity Timeout	UINT16	1-→ 1440	60	min (17-1)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
TO_TIME_REMAINING	Remaining Time Before Timeout	UINT16		0	min (17-1)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
LAST_CAL	Time of Last Calibration	Time		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
ZERO_SHIFT	Zero Shift	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
USER_ZERO_VAL	Calibrated Zero	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

AICal								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
USER_SPAN_VAL	Calibrated Span	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
USER_MID1_VAL	Calibrated Midpoint 1	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
USER_MID2_VAL	Calibrated Midpoint 2	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
USER_MID3_VAL	Calibrated Midpoint 3	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
IDEAL_ZERO_VAL	Ideal Zero	UINT32		0	A/D Counts (127-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
IDEAL_SPAN_VAL	Ideal Span	UINT32		0	A/D Counts (127-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
IDEAL_MID1_VAL	Ideal Midpoint 1	UINT32		0	A/D Counts (127-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
IDEAL_MID2_VAL	Ideal Midpoint 2	UINT32		0	A/D Counts (127-0)	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

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AICal								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
IDEAL_MID3_VAL	Ideal Midpoint 3	UINT32		0	A/D Counts (127-0)	Meas. Tech Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CAL_STATUS	Calibration Status 0 - Calibration Not In Progress 1 - Input Frozen 2 - Calibration In Progress 3 - Reserved 4 - Set Command Failed 5 - Timeout Occurred 6 - Span Too Small 7 - Excess Correction 8 - Passed Parameter Too Small 9 - Passed Parameter Too Large 10 - Ideal Value Too Small 11 - Ideal Value Too Large 12 - Wrong Command 13 - Verification In Progress	BIN16		Calibration Not In Progress	Calibration Status (150)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
VER_DATE	Time of Last Verification	Time		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
VER_PT1_FOUND	Verification Point 1 As Found	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

AICal								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
VER_PT2_FOUND	Verification Point 2 As Found	FLOAT		0	% (18-0)	Meas. Tech Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
VER_PT3_FOUND	Verification Point 3 As Found	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
VER_PT4_FOUND	Verification Point 4 As Found	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
VER_PT5_FOUND	Verification Point 5 As Found	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
VER_PT6_FOUND	Verification Point 6 As Found	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
VER_PT7_FOUND	Verification Point 7 As Found	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
VER_PT1_LEFT	Verification Point 1 As Left	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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AICal								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
VER_PT2_LEFT	Verification Point 2 As Left	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
VER_PT3_LEFT	Verification Point 3 As Left	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
VER_PT4_LEFT	Verification Point 4 As Left	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
VER_PT5_LEFT	Verification Point 5 As Left	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
VER_PT6_LEFT	Verification Point 6 As Left	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
VER_PT7_LEFT	Verification Point 7 As Left	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CAL_COMMAND	Calibration command 0 - None 1 - Freeze 2 - Start Calibration 3 - Set Zero 4 - Set Span 5 - Set Mid1	ENUM16		Unfreeze (10)	Calibration Command (149)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

AICal								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	6 - Set Mid2							
	7 - Set Mid3							
	8 - Set Zero Shift							
	9 - Save Calibration							
	10 - Unfreeze							
	11 - Cancel Calibration							
	12 - Restore Factory Defaults							
	13 - Start Verification							
	14 - Set Verification Pt1							
	15 - Set Verification Pt2							
	16 - Set Verification Pt3							
	17 - Set Verification Pt4							
	18 - Set Verification Pt5							
	19 - Set Verification Pt6							
	20 - Set Verification Pt7							
	21 - Verification Done							
	22 - Restored Successfully							
	23 - Restore Failed							

## 5.6 Alarm Parameters

- Description:** The Alarm object provides the parameters for configuring and viewing alarms.
- Number of Instances:** 627 instances may exist (varies with the I/O configuration and number of meter runs)
- Storage Location:** Saved to internal configuration memory.

**Table 5-5: Alarm Parameters**

Alarm								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0 → 5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
ALM_DESC	Alarm Description	UC20		Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ALM_VAL_PARAM	Value to Alarm	ParamRef		Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>



Alarm								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
LO_ENB	Low Alarm Enable 0 - Disable 1 - Enable	ENUM16	0 → 1	Disable (0)	Enable/Disable Selection (30)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LO_LIM	Low Alarm Limit	FLOAT		0	Instance: 1-24: MCF/d (12-7) <b>25 -100:</b> <b>RESERVED</b> 101-124: MCF/d (12-7) <b>125-300:</b> <b>RESERVED</b> 301-324: MCF/d (12-7) <b>325-438:</b> <b>RESERVED</b>	<b>R/W:</b> Admin; Engineer; Meas. Tech; Operator; <b>R/O:</b> Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LO_ST	Low Alarm Status 0 - Normal 1 - In Alarm	ENUM16	0 → 1	Normal (0)	Alarm Status (254)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
LO_PRI	Low Alarm Priority	UINT8	0 → 6	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
LOLO_ENB	Low Low Alarm Enable 0 - Disable 1 - Enable	ENUM16	0 → 1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
LOLO_LIM	Low Low Alarm Limit	FLOAT		0	Instance: 1-24: MCF/d (12-7) <b>25-100:</b> <b>RESERVED</b> 101-124: MCF/d (12-7) <b>125-300:</b> <b>RESERVED</b> 301-324: MCF/d (12-7) <b>325-438:</b> <b>RESERVED</b>	<b>R/W:</b> Admin; Engineer; Meas. Tech; Operator <b>R/O:</b> Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LOLO_ST	Low Low Alarm Status 0 - Normal 1 - In Alarm	ENUM16	0 → 1	Normal (0)	Alarm Status (254)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
LOLO_PRI	Low Low Alarm Priority	UINT8	0 → 6	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
HI_ENB	High Alarm Enable 0 - Disable 1 - Enable	ENUM16	0 → 1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
HI_LIM	High Alarm Limit	FLOAT		10000	Instance: 1-24: MCF/d (12-7) <b>25-100:</b> <b>RESERVED</b> 101-124: MCF/d (12-7) <b>125-300:</b> <b>RESERVED</b>	<b>R/W:</b> Admin; Engineer; Meas. Tech; Operator <b>R/O:</b> Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Alarm								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
					<b>RESERVED</b> 301-324: MCF/d (12-7)			
					<b>325-438:</b> <b>RESERVED</b>			
HI_ST	High Alarm Status 0 - Normal 1 - In Alarm	ENUM16	0 → 1	Normal (0)	Alarm Status (254)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
HI_PRI	High Alarm Priority	UINT8	0 → 6	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
HIHI_ENB	High High Alarm Enable 0 - Disable 1 - Enable	ENUM16	0 → 1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
HIHI_LIM	High High Alarm Limit	FLOAT		10000	Instance: 1-24: MCF/d (12-7) <b>25-100:</b> <b>RESERVED</b> 101-124: MCF/d (12-7) <b>125-300:</b> <b>RESERVED</b> 301-324: MCF/d (12-7) <b>325-438:</b> <b>RESERVED</b>	<b>R/W:</b> Admin; Engineer; Meas. Tech; Operator <b>R/O:</b> Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
HIHI_ST	High High Alarm Status 0 - Normal 1 - In Alarm	ENUM16	0 → 1	Normal (0)	Alarm Status (254)	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

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Alarm								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
HIHI_PRI	High High Alarm Priority	UINT8	0 → 6	0		Meas. Tech Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
ROC_MODE	Rate of Change Alarm Mode 0 - Disabled 1 - Alarm on Positive Changes 2 - Alarm on Negative Changes 3 - Alarm on Both	ENUM16	0 → 3	Disabled (0)	Rate of Change Alarm Mode (195)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ROC_LIM	Rate of Change Limit	FLOAT	≥ 0	100	Instance: 1-24: MCF/d (12-7) <b>25-100:</b> <b>RESERVED</b> 101-124: MCF/d (12-7) <b>125-300:</b> <b>RESERVED</b> 301-324: MCF/d (12-7) <b>325-438:</b> <b>RESERVED</b>	<b>R/W:</b> Admin; Engineer; Meas. Tech; Operator <b>R/O:</b> Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ROC_TM	Rate of Change Time Period	FLOAT	≥ 1	1	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ROC_ST	Rate of Change Alarm Status 0 - Normal 1 - In Alarm	ENUM16	0→1	Normal (0)	Alarm Status (254)	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

Alarm								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
ROC_PRI	Rate of Change Alarm Priority	UINT8	0→6	0		Meas. Tech Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
PF_ENB	Point Failure Enable 0 - Disable 1 - Enable	ENUM16	0→1	Enable (1)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
PF_ST	Point Failure Alarm Status 0 - Normal 1 - In Alarm	ENUM16	0→1	Normal (0)	Alarm Status (254)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
PF_PRI	Point Failure Priority	UINT8	0→6	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DEADBAND	Alarm Deadband	FLOAT	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
PROCESS_ALM	Composite Alarm Status 0 - Normal 1 - Low 2 - Low Low 3 - High 4 - High High 5 - Rate of Change 6 - Point Fail	BIN8		Normal	Composite Alarm Status (45)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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Alarm								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SUP_PROC	Suppress Process Alarm(s) 0 - Off 1 - On	ENUM16	0→1	Off (0)	Alarm Suppress State (266)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SUP_SYS	Suppress System Alarm(s) 0 - Off 1 - On	ENUM16	0→1	Off (0)	Alarm Suppress State (266)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

## 5.7 AO Parameters

**Description:** The AO object provides the parameters for configuring analog outputs.

**Number of Instances:** 14 instances may exist (2 per MIO module).

**Storage Location:** Saved to internal configuration memory.

**Table 5-6: AO Parameters**

AO								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
MOD_LOC	Module Location	UINT8		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	

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AO								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CHANNEL	Channel	UINT8		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20		Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
UNITS	Units 0 - % 2 - ppm	ENUM16	0→35	0%	Ratio (18)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
UNITS_TYPE	Unit Enumeration Selection 0 - Unitless 2 - Absolute Pressure 3 - Temperature 4 - Density 5 - Volume Heating Value 6 - Dynamic Viscosity 7 - Linear (Short) 8 - Linear (Long) 12 - Volume Rate 13 - Mass Rate 14 - Energy Rate 15 - Current 16 - Voltage 18 - Percentage	ENUM16	0→306	Percentage (18)	AO Units Type (179)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes



AO								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	19 - Acceleration 23 - Resistance 26 - Differential Pressure 29 - Gauge Pressure 225 - Mass Heating Value							
RAW	Raw Value	UINT32		0	D/A Counts (127-1)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
AUTO	Auto Value	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	
OVRD	Override Value	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
AUTO_READ_VAL	Auto Read Value	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
AUTO_READ_PARAMETER	Auto Read Parameter Reference	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FAULT	Fault Value	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
LAST_GOOD	Last Good Value	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	

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AO								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SELECTED	Selected Value	FLOAT		0	% (18-0)	Meas. Tech Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
USER_MODE	Operation Mode 0 - Auto 1 - Override 2 - Auto Read	ENUM16	0→2	Auto (0)	IO Output User Selection (131)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FAULT_MODE	Fault Mode 0 - Fault 1 - Last Good 2 - Last Hour Average 3 - Ramp to Fault Value 4 - Ramp to Last Hour Avg	ENUM16	0→4	Last Good (1)	IO Fault Selection (136)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
ACTUAL_MODE	Actual Mode 0 - Live 1 - Auto 2 - Auto Read 3 - Override 4 - Calibration 5 - Fault 6 - Last Good 7 - Last Hour Average 8 - Ramp to Fault Value 9 - Ramp to Last Hour Avg	ENUM16		Live (0)	Actual Mode (125)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
CLIP_MODE	Clipping Mode 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
CLIP_HIGH_LIMIT	High Clipping Limit	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Verified</li> </ul>

AO								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CLIP_LOW_LIMIT	Low Clipping Limit	FLOAT		0	% (18-0)	Meas. Tech <b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Verified</li> </ul>
ALM_OBJ	Alarm Reference	ObjectRef		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
URL	Upper Range Limit	UINT32		0	D/A Counts (127-1)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
LRL	Lower Range Limit	UINT32		0	D/A Counts (127-1)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
LOW_EU	Low Reading EU	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Verified</li> </ul>
HIGH_EU	High Reading EU	FLOAT		100	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Verified</li> </ul>
AO_RAW_0_PERCENT	Adjusted D/A 0 Percent	UINT32		0	D/A Counts (127-1)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

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AO								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
AO_RAW_100_PERCENT	Adjusted D/A 100 Percent	UINT32		0	D/A Counts (127-1)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
MFG_STATUS	Factory Calibration Status 0 - Invalid 1 - Valid	ENUM16		Invalid (0)	Factory Calibration Status (128)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
MFG_DATE_TIME	Factory Calibration Date	Time		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
SCALE_MODE	EU Scaling Mode 0 - Multi-Point Calibration 1 - EU Scaling	ENUM16	0→1	Multi-Point Calibration (0)	EU Scaling Mode (221)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OUTPUT_STATUS	Output Health Status 0 - Normal 1 - Not Licensed 2 - Instance Inactive 3 - Comm Fail 4 - Override Active 5 - In Alarm 6 - Point Fail 7 - Above URL 8 - Below LRL 9 - RESERVED 10 - Output Clipped 11 - Factory Calibration Invalid 12 - Auto Read Parameter Invalid 13 - AO Readback Failure	BIN16		Normal	AO Status (130)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	

AO								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	14 - Termination Missing 15 - Disabled 16 - Hardware Fail							
RESET_MODE	Action on Power Cycle 0 - Fault 1 - Last Good	ENUM16	0→1	Last Good (1)	IO Fault Selection (136)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
CONV_TYPE	Current/Voltage Selection 0 - Current 1 - Voltage 2 - Disabled	ENUM16	0→2	Disabled (2)	AI Resistor Selection (124)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Verified</li> </ul>
LAST_HOUR_AVERAGE	Last Hour Average Value	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
RAMP_DURATION	Ramp Duration	FLOAT	0→60	0	S (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.3.0.XXX	

## 5.8 AppInfo Parameters

**Description:** The AppInfo object provides the parameters for viewing information about the applications running in the device and the ability to start and stop an IEC61131 application runtime.

**Number of Instances:** 8 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-7: AppInfo Parameters**

AppInfo								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "AppInfo_X" (where X is instance number between 1 and 8)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0–5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DESC	Description	UC40		Instance: "Application_X" (where X is instance number between 1 and 8)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
APP_NAME	Application Package Name	UC40				<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	

AppInfo								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CODE_USED	Code Space Used by App	UINT32		0	Bytes (267-0)	Meas. Tech Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
CODE_MAX	Code Pool Area	UINT32		0	Bytes (267-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DATA_USED	Data Space Used by App	UINT32		0	Bytes (267-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DATA_MAX	Data Pool Area	UINT32		0	Bytes (267-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
OBJ_USED	Object Space Used	UINT32		0	Bytes (267-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
OBJ_MAX	Object Pool Area	UINT32		0	Bytes (267-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
RETAIN_USED	Retain Space Used	UINT32		0	Bytes (267-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
APP_STATUS	Application Status 0 - Unloaded 1 - Load Requested 2 - Loaded 3 - Start Requested	ENUM16	0–9	Unloaded (0)	Application Status (271)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	

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AppInfo								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	4 - Running 5 - Stop Requested 6 - Stopped 7 - Terminate Requested 8 - Terminated 9 - Undefined							
APP_CODE	Application Exception 0 - None 1 - String Error 2 - Watchdog Exceeded 3 - Max CPU Load Exceeded 4 - System Error 5 - End Error	ENUM16	0–5	None (0)	Application Exception Code (272)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
RO_MEM	Read Only Memory	UINT32		0	Bytes (267-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
RW_MEM	Read/Write Memory	UINT32		0	Bytes (267-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
STACK_MEM	Allocated Stack Memory	UINT32		0	Bytes (267-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
RWX_MEM	Read/Write and Execute Memory	UINT32		0	Bytes (267-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
CPU_USAGE	CPU Usage	FLOAT	0–100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
PACK_NAME	Package Name	UC40				<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	



AppInfo								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
PACK_VER	Package Version	UC40				Meas. Tech Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
APP_CTRL	Application Control 0 - Idle 1 - Start 2 - Stop 3 - Load 4 - Clear	ENUM16	0→4	Idle (0)	Application Control (273)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Log Changes
TASK_STATUS	Task Status 0 - Stopped 1 - Started 2 - No License 3 - Library Version Error	ENUM16	0→3	Stopped (0)	Task Status (274)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	
PACK_LIB_VER	Package Library Version	UC20				<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
PACK_STATUS	Package Status 0 - Unloaded 1 - Loaded	ENUM16	0→1	Unloaded (0)	Application Package Status (309)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
NUM_RESTARTS	Restart Counter	UINT16				<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
RESET_COUNTER	Reset counter: 1 - Idle 2 - Reset	ENUM16	0→1	Idle (0)	Reset Counter (311)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log changes

## 5.9 Average Parameters

**Description:** The Average object provides the parameters for configuring which inputs the system uses to calculate averages and viewing the periodic minimum, maximum, and average values.

**Number of Instances:** 400 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-8: Average Parameters**

Average								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "Average_X" (where X is instance number between 1 and 400)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0 -> 5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20				<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SAMPLE_PARAM	Input to Average	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Average								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SNAPSHOT	Value of Input at Last Period End	DOUBLE		0		Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
SNAP_TIME	Timestamp of Last Period End	TIME		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CUR_PER_AVG	Current Hour Average	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
PREV_PER_AVG	Previous Hour Average	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CUR_DAY_AVG	Current Day Average	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
PREV_DAY_AVG	Previous Day Average	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CUR_WK_AVG	Current Week Average	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
PREV_WK_AVG	Previous Week Average	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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Average								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CUR_MNTH_AVG	Current Month Average	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
PREV_MNTH_AVG	Previous Month Average	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CUR_PER_MIN	Current Hour Minimum	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
PREV_PER_MIN	Previous Hour Minimum	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CUR_DAY_MIN	Current Day Minimum	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
PREV_DAY_MIN	Previous Day Minimum	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CUR_WK_MIN	Current Week Minimum	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
PREV_WK_MIN	Previous Week Minimum	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CUR_MNTH_MIN	Current Month Minimum	DOUBLE		0		<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

Average								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
PREV_MNTH_MIN	Previous Month Minimum	DOUBLE		0		Meas. Tech Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CUR_PER_MAX	Current Hour Maximum	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
PREV_PER_MAX	Previous Hour Maximum	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CUR_DAY_MAX	Current Day Maximum	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
PREV_DAY_MAX	Previous Day Maximum	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CUR_WK_MAX	Current Week Maximum	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
PREV_WK_MAX	Previous Week Maximum	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CUR_MNTH_MAX	Current Month Maximum	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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Average								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
PREV_MNTH_MAX	Previous Month Maximum	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
WEIGHT_OBJ	Input to Weight	ObjectRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CUR_BATCH_AVG	Current Batch Average	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.12.0.XXX	Legal
PREV_BATCH_AVG	Previous Batch Average	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.12.0.XXX	Legal

## 5.10 Bus Parameters

**Description:** The Bus object provides the parameters for configuring communication with MIO modules.

**Number of Instances:** 1 instance may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-9: Bus Parameters**

Bus								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		1-IO Bus		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DESC	Description	UC40		1-IO Bus		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
POLL_INTERVAL	Interval to Poll I/O 0 - 1 second 1 - 500 ms	ENUM16	0→6	1 second (0)	Poll Intervals (269)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Bus								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	2 - 200 ms 3 - 100 ms 4 - 50 ms 5 - 20 ms 6 - 10 ms					R/O: Operator; Auditor		
TOS_PULSES	TOS pulses sent	UINT32		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
CYCLE_PULSES	Collection Pulses Sent	UINT32		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
READ_OVER_RUNS	Overflow of read buffer	UINT32		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
READ_UNDER_RUNS	Read buffer empty	UINT32		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
READ_EMPTY	Reads with No Data	UINT32		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
READ_DATA	Reads with Data from Card	UINT32		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
WRITE_OVER_RUNS	Overflow of write buffer	UINT32		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
WRITE_UNDER_RUNS	Write Buffer empty	UINT32		0		R/O: Admin; Engineer;	2.0.0.XXX	



Bus								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
WRITE_EMPTY	Cycles without Data Writes	UINT32		0		Meas. Tech Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
WRITE_DATA	Writes to I/O Card	UINT32		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
RESET_MSG_COUNT	Reset Message Counters 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> <li>▪ Verified</li> </ul>

## 5.11 Clock Parameters

**Description:** The Clock object provides the parameters for viewing information on, and configuring, the clock and daylight savings time.

**Number of Instances:** 1 instance may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-10: Clock Parameters**

Clock								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Clock		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
TIME	Current Time	TIME		0		<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

Clock								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
YEAR	Current Year	UINT16		0		R/O: Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
MONTH	Current Month 1 - January 2 - February 3 - March 4 - April 5 - May 6 - June 7 - July 8 - August 9 - September 10 - October 11 - November 12 - December	ENUM16			Months of the Year (236)	R/O: Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
DAY	Current Day	UINT8		0		R/O: Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
HOUR	Current Hour	UINT8		0		R/O: Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SECOND	Current Second	UINT8		0		R/O: Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
MINUTE	Current Minute	UINT8		0		R/O: Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
WEEK_DY	Current Day of the Week 0 - Sunday	ENUM16		Sunday (0)	Day of Week (34)	R/O: Admin; Engineer	2.0.0.XXX	Legal

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Clock								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	1 - Monday 2 - Tuesday 3 - Wednesday 4 - Thursday 5 - Friday 6 - Saturday					Meas. Tech; Operator; Auditor		
DST_MODE	Auto Daylight Saving Time Mode 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DST_STATUS	Daylight Saving Time Status 0 - Standard Time 1 - Saving Time 2 - Gift Time	ENUM16		Standard Time (0)	Daylight Saving Time Status (194)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
DST_ST_HR	DST Start Hour	UINT8	0→23	2		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DST_ST_DW	DST Start Day of Week 0 - Sunday 1 - Monday 2 - Tuesday 3 - Wednesday 4 - Thursday 5 - Friday 6 - Saturday	ENUM16	0→6	Sunday (0)	Day of Week (34)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DST_ST_OCR	DST Start Occurrence in Month 0 - First Week 1 - Second Week 2 - Third Week 3 - Fourth Week 4 - Last Week	ENUM16	0→4	Second Week (1)	Week of Month (151)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor		<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Clock								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DST_ST_MTH	DST Start Month 1 - January 2 - February 3 - March 4 - April 5 - May 6 - June 7 - July 8 - August 9 - September 10 - October 11 - November 12 - December	ENUM16	1→12	March (3)	Months of the Year (236)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DST_ST_TM	DST Start Date / Time	TIME		0		<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
DST_EN_HR	DST End Hour	UINT8	0→23	2		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DST_EN_DW	DST End Day of Week 0 - Sunday 1 - Monday 2 - Tuesday 3 - Wednesday 4 - Thursday 5 - Friday 6 - Saturday	ENUM16	0→6	Sunday (0)	Day of Week (34)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DST_EN_OCR	DST Occurrence in Month 0 - First Week 1 - Second Week 2 - Third Week	ENUM16	0→4	First Week (0)	Week of Month (151)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Clock								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	3 - Fourth Week 4 - Last Week							
DST_EN_MTH	DST End Month 1 - January 2 - February 3 - March 4 - April 5 - May 6 - June 7 - July 8 - August 9 - September 10 - October 11 - November 12 - December	ENUM16	1→12	November (11)	Months of the Year (236)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DST_EN_TM	DST End Date / Time	Time		Undefined		<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
TIME_SYNC_DEADBAND	Time Synchronization Deadband	UINT16	0→30	2	Seconds (310-0)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FLOAT_DATE_TIME_EN	Enabled for date/time events as a float	ENUM16	0→1	1	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FLOAT_DATE	Floating Point Date	FLOAT		0		<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.3.0.XXX	Legal

Clock								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FLOAT_TIME	Floating Point Time	FLOAT		0		R/O: Admin; Engineer Meas. Tech; Operator; Auditor	2.3.0.XXX	Legal

## 5.12 Comm Parameters

**Description:** The Comm object provides the parameters for configuring the communications ports.

**Number of Instances:** 35 instances may exist (varies with the Serial Module).

**Storage Location:** Saved to internal configuration memory.

**Table 5-11: Comm Parameters**

Comm								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: 1-COM1 2-COM2 3-COM3 4-COM4 5-ENET1 6-ENET2 7-USB 8-35-COMX (X - varies by instance)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	



Comm								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
PORT_DESC	Port Description	UC20		Instance: 1-Serial Port 1 2-Serial Port 2 3-Serial Port 3 4-Serial Port 4 5-Ethernet Port 1 6-Ethernet Port 2 7-USB Port 8-35-Serial Port X (X varies by instance)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
PORT_ENABLE	Port Enable 0 - Disable 1 - Enable	ENUM16	0→1	Enable (1)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OWNER	Port Owner 1 - DNP3/Modbus Slave 2 - DNP3 3 - Modbus Slave 4 - Modbus Master 5 - RESERVED 6 - RESERVED 7 - MVS4088B	ENUM16	Instance : 1 - 1→4 2 - 1→4 3 - 1→7 4 - 1→7 5 - 1→4 6 - 1→4 7 - 2→2	Instance: 1-7: DNP3 (2)	Instance: 1 -2: Serial Port Owner (291) 3 -4: Serial Port Owner (292) 5 -6: Serial Port Owner (291) 7 - Serial Port Owner (300) 8-35 - Serial Port Owner (400)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

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Comm								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
PORT_TYPE	Port Type 0 - Serial 1 - Ethernet 2 - WiFi 3 - USB	ENUM16	0→3	Instance: 1 - Serial (0) 2 - Serial (0) 3 - Serial (0) 4 - Serial (0) 5 - Ethernet (1) 6 - Ethernet (1) 7 - USB (3) 8-35 - Serial (0)	Port Type (68)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
SER_MODE	Serial Mode 0 - RS-232 1 - RS-485 2-Wire (No Termination) 2 - RS-485 2-Wire (Terminated) 3 - RS-422 4-Wire (No Termination) 4 - RS-422 4-Wire (Terminated)	ENUM16	Instance : 1 - 0→4 2 - 0→2 3 - 0→2 4 - 1→4 5 - 4→4 6 - 4→4 7 - 0→0	RS-232 (0)	Instance: 1 - Serial Port Mode (69) 2 - Serial Port Mode (214) 3 - Serial Port Mode (214) 4 - 7: Serial Port Mode (69) 8-35 - Serial Port Mode (69)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
BAUD	Baud Rate 0 - 1200 1 - 2400 2 - 4800 3 - 9600 4 - 19.2K 5 - 38.4K 6 - 57.6K 7 - 115.2K	ENUM16	0→7	115.2K (7)	Baud Rate (39)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
SER_SETTING	Serial Settings 0 - 7 data bits   odd parity   1 stop bit 1 - 7 data bits   even parity   1 stop bit 2 - 8 data bits   no parity   1	ENUM16	0→4	8 data bits   no parity   1 stop bit (2)	Serial Settings (40)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

Comm								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	stop bit 3 - 8 data bits   odd parity   1 stop bit 4 - 8 data bits   even parity   1 stop bit							
IPV4_ADDRESS	IPv4 IP Address	ByteArray4		Instance: 1-5: -0xCOA8010A 6-0XCOA8020A 7-0XCOA8010A	IPv4 Address (41)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
MAC48_ADDRESS	MAC 48-bit Address	ByteArray6		0x000000	48-bit MAC Address (42)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
MAX_CONNECT	Maximum Number of Connections	UINT8		Instance: 1-1 2-1 3-1 4-1 5-206 6-206 7-1		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
CUR_CONNECT	Current Number of Connections	UINT8		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
SSID	WiFi SSID	UC30		FBXX00		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
SECURE_TYPE	Wireless Security Type 0 - Open 1 - WPA-2	ENUM16	0→1	WPA-2 (1)	WiFi Security Option (95)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
KEY	Wireless Security Key	UC40		EmersonFBXX00	Password (241-1)	R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
WIFI_CHANNEL	Wireless Channel	UINT8	1→11	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	
IPV4_GATEWAY_ADDR	Gateway Address (IPv4)	ByteArray4		Instance: 1: 0xC0A80101 2: 0xC0A80101 3: 0xC0A80101 4: 0xC0A80101 5: 0xC0A80101 6: 0xC0A80201 7: 0xC0A80101	IPv4 Address (41)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
IPV4_SUBNET_MASK	Subnet Mask (IPv4)	ByteArray4		Instance: 1-5: 0xFFFFFFFF00	IPv4 Address (41)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
WIFI_ANTENNA	WiFi Antenna Type 0 - Internal Antenna 1 - External Antenna	ENUM16	0→1	Internal Antenna (0)	WiFi Antenna Type (226)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	
IP_CONN1_OWNER	IP Connection 1 Owner 0 - DNP3 Protocol 1 - Modbus Slave Protocol	ENUM16	0→1	DNP3 Protocol (0)	IP Connection Owner (290)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes

Comm								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
IP_CONN2_OWNER	IP Connection 2 Owner 0 - DNP3 Protocol 1 - Modbus Slave Protocol	ENUM16	0→1	DNP3 Protocol (0)	IP Connection Owner (290)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
IP_CONN3_OWNER	IP Connection 3 Owner 0 - DNP3 Protocol 1 - Modbus Slave Protocol	ENUM16	0→1	DNP3 Protocol (0)	IP Connection Owner (290)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
IP_CONN4_OWNER	IP Connection 4 Owner 0 - DNP3 Protocol 1 - Modbus Slave Protocol	ENUM16	0→1	DNP3 Protocol (0)	IP Connection Owner (290)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
IP_CONN5_OWNER	IP Connection 5 Owner 0 - DNP3 Protocol 1 - Modbus Slave Protocol	ENUM16	0→1	DNP3 Protocol (0)	IP Connection Owner (290)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
IP_CONN6_OWNER	IP Connection 6 Owner 0 - DNP3 Protocol 1 - Modbus Slave Protocol	ENUM16	0→1	Modbus Slave Protocol (1)	IP Connection Owner (290)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
IP_CONN7_OWNER	IP Connection 7 Owner 0 - Modbus Master Protocol	ENUM16	0→0	Modbus Master Protocol (0)	IP Connection 7 Owner (260)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Log Changes
KEY_ON_DELAY	Key On Delay	FLOAT	0→3	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
KEY_OFF_DELAY	Key Off Delay	FLOAT	0→3	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DNP3_ACTIVE_CONN	DNP3 Active Connections	UINT8	0 → 20	0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	Log Changes
DNP3_RESERVED	DNP3 Reserved	UINT8	0 → 20	2		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Log Changes
MBUS_ACTIVE_CONN	Modbus Active Connections	UINT8	0 → 20	0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	Log Changes
MBUS_SLAVE_RESERVED	Modbus Slave Reserved	UINT8	0 → 20	2		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Log Changes
MBUS_MASTER_RESERVED	Modbus Master Reserved	UINT8	0 → 1	1		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	Log Changes

## 5.13 Components Parameters

**Description:** The Components object provides the parameters for configuring fluid components.

**Number of Instances:** 36 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-12: Components Parameters**

Components								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "Components_X" (where X is instance number between 1 and 36)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20				<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
USER_MODE	Operation Mode 0 - Measured	ENUM16	0→3	Override (1)	User Mode Selection 4 (188)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Components								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FAULT_MODE	1 - Override 3 - Remote Download Fault Mode 0 - Live 1 - Fault 2 - Last Good	ENUM16	0→2	Fault (1)	Fault Selection (32)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ANALYSIS_TIMEOUT_ENB	Analysis Timeout Enable 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ANALYSIS_TIMEOUT	Analysis Timeout Value	FLOAT	0→ 4000000	900	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LIVE_ANALYSIS_TIME	Last Good Analysis Time	Time		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Legal</li> </ul>
NORMALIZATION_OPT	Normalization Option 0 - None 1 - Full Normalization 2 - Methane Adjust	ENUM16	0→2	Full Normalization (1)	Normalization Type (67)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COMPONENTS_ALARM	Components Alarm 0 - Normal 1 - Analysis Timeout 2 - Normalization Failure	BIN32		Normal	Components Alarm (190)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Legal</li> </ul>
APPLY_COMP	Apply Composition Values 0 - No Action 1 - Accept Composition	ENUM16	0→1	No Action (0)	Live Trigger (82)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>



Components								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
GC_DATA_OBJ	GC Data Object	ObjectRef	GC Data	Instance: "GC Data_1-X" (where X is instance number between 1 and-24)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C1_LIVE	Live Methane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
N2_LIVE	Live Nitrogen	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CO2_LIVE	Live Carbon Dioxide	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
C2_LIVE	Live Ethane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
C3_LIVE	Live Propane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
H2O_LIVE	Live Water	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
H2S_LIVE	Live Hydrogen Sulfide	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
H2_LIVE	Live Hydrogen	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CO_LIVE	Live Carbon Monoxide	DOUBLE	0→100	0	% (18-0)	Meas. Tech Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
O2_LIVE	Live Oxygen	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
IC4_LIVE	Live i-Butane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
NC4_LIVE	Live n-Butane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
IC5_LIVE	Live i-Pentane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
NC5_LIVE	Live n-Pentane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
C6_LIVE	Live n-Hexane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
C7_LIVE	Live n-Heptane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

Components								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
C8_LIVE	Live n-Octane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
C9_LIVE	Live n-Nonane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
C10_LIVE	Live n-Decane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
HE_LIVE	Live Helium	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
AR_LIVE	Live Argon	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
NEOC5_LIVE	Live Neopentane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
BENZENE_LIVE	Live Benzene	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
TOLUENE_LIVE	Live Toluene	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
C1_OVRD	Override Methane	DOUBLE	0→100	100	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Components								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
N2_OVRD	Override Nitrogen	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CO2_OVRD	Override Carbon Dioxide	DOUBLE	0 → 100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C2_OVRD	Override Ethane	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C3_OVRD	Override Propane	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2O_OVRD	Override Water	DOUBLE	0 → 100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2S_OVRD	Override Hydrogen Sulfide	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2_OVRD	Override Hydrogen	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Components								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CO_OVRD	Override Carbon Monoxide	DOUBLE	0→100	0	% (18-0)	R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
O2_OVRD	Override Oxygen	DOUBLE	0→100	0	% (18-0)	R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
IC4_OVRD	Override i-Butane	DOUBLE	0→100	0	% (18-0)	R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NC4_OVRD	Override n-Butane	DOUBLE	0→100	0	% (18-0)	R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
IC5_OVRD	Override i-Pentane	DOUBLE	0→100	0	% (18-0)	R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NC5_OVRD	Override n-Pentane	DOUBLE	0→100	0	% (18-0)	R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C6_OVRD	Override n-Hexane	DOUBLE	0→100	0	% (18-0)	R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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C7_OVRD	Override n-Heptane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C8_OVRD	Override n-Octane	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C9_OVRD	Override n-Nonane	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C10_OVRD	Override n-Decane	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
HE_OVRD	Override Helium	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
AR_OVRD	Override Argon	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NEOC5_OVRD	Override Neopentane	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Components								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
BENZENE_OVRD	Override Benzene	DOUBLE	0→100	0	% (18-0)	R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
TOLUENE_OVRD	Override Toluene	DOUBLE	0→100	0	% (18-0)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C1_SEL	Selected Methane	DOUBLE	0→100	100	% (18-0)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
N2_SEL	Selected Nitrogen	DOUBLE	0→100	0	% (18-0)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CO2_SEL	Selected Carbon Dioxide	DOUBLE	0→100	0	% (18-0)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
C2_SEL	Selected Ethane	DOUBLE	0→100	0	% (18-0)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
C3_SEL	Selected Propane	DOUBLE	0→100	0	% (18-0)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
H2O_SEL	Selected Water	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
H2S_SEL	Selected Hydrogen Sulfide	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
H2_SEL	Selected Hydrogen	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CO_SEL	Selected Carbon Monoxide	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
O2_SEL	Selected Oxygen	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
IC4_SEL	Selected i-Butane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
NC4_SEL	Selected n-Butane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
IC5_SEL	Selected i-Pentane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
NC5_SEL	Selected n-Pentane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal



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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
C6_SEL	Selected n-Hexane	DOUBLE	0→100	0	% (18-0)	Meas. Tech Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
C7_SEL	Selected n-Heptane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
C8_SEL	Selected n-Octane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
C9_SEL	Selected n-Nonane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
C10_SEL	Selected n-Decane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
HE_SEL	Selected Helium	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
AR_SEL	Selected Argon	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
NEOC5_SEL	Selected Neopentane	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
BENZENE_SEL	Selected Benzene	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
TOLUENE_SEL	Selected Toluene	DOUBLE	0→100	0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
C1_FAULT	Fault Methane	DOUBLE	0→100	100	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
N2_FAULT	Fault Nitrogen	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CO2_FAULT	Fault Carbon Dioxide	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C2_FAULT	Fault Ethane	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C3_FAULT	Fault Propane	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2O_FAULT	Fault Water	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Components								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
H2S_FAULT	Fault Hydrogen Sulfide	DOUBLE	0→100	0	% (18-0)	Meas. Tech <b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2_FAULT	Fault Hydrogen	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CO_FAULT	Fault CO	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
O2_FAULT	Fault Oxygen	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
IC4_FAULT	Fault i-Butane	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NC4_FAULT	Fault n-Butane	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
IC5_FAULT	Fault i-Pentane	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
NC5_FAULT	Fault n-Pentane	DOUBLE	0→100	0	% (18-0)	Meas. Tech <b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C6_FAULT	Fault n-Hexane	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C7_FAULT	Fault n-Heptane	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C8_FAULT	Fault n-Octane	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C9_FAULT	Fault n-Nonane	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C10_FAULT	Fault n-Decane	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
HE_FAULT	Fault Helium	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Components								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
AR_FAULT	Fault Argon	DOUBLE	0→100	0	% (18-0)	Meas. Tech <b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NEOC5_FAULT	Fault Neopentane	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
BENZENE_FAULT	Fault Benzene	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
TOLUENE_FAULT	Fault Toluene	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
TOTAL_SEL	Total Selected	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.12.0.XXX	Legal
TOTAL_LIVE	Total Live	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.12.0.XXX	Legal
TOTAL_OVRD	Total Override	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.12.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TOTAL_FAULT	Total Fault	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.12.0.XXX	Legal

## 5.14 Ctrl Setup Parameters

**Description:** The Ctrl Setup object provides the parameters for configuring the number of instances for control objects, such as Action Blks (Blocks), Effects, Math Blks (Blocks), and PIDs.

**Number of Instances:** 1 instance may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-13: Ctrl Setup Parameters**

Ctrl Setup								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Ctrl Setup_1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0 → 5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	Log Changes
OBJ_STATUS	Status: 0 – Normal 1 – In Alarm 2 – Failure 3 – Override 4 – Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.3.0.XXX	
DESC	Description	UC40		Control Setup		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	Log Changes

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Ctrl Setup								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
NUM_CONTROL	Number of Controls	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	Log Changes
MAX_CONTROL	Maximum Controls	UINT16		100		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.3.0.XXX	
NUM_ACT_BLK	Number of Action Blocks	UINT16	0 → 100	48		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	Log Changes
MAX_ACT_BLK	Maximum Action Blocks	UINT16		100		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.3.0.XXX	
NUM_MATH_BLK	Number of Math Blocks	UINT16	0 → 100	12		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	Log Changes
MAX_MATH_BLK	Maximum Math Blocks	UINT16		100		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.3.0.XXX	
NUM_EFFECT	Number of Effects	UINT16	0 → 100	16		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	Log Changes
MAX_EFFECT	Maximum Effects	UINT16		100		<b>R/O:</b> Admin; Engineer;	2.3.0.XXX	



Ctrl Setup								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
NUM_PID	Number of PIDs	UINT16	0 → 100	24		Meas. Tech; Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	Log Changes
MAX_PID	Maximum PIDs	UINT16		100		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.3.0.XXX	
BUSY_STATUS	Busy Status 0 - Idle 1 - Busy	ENUM16	0 → 1	Idle (0)	Busy Status (287)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.3.0.XXX	
LICENSE_CTRL	License Control 0 - Licensed 1 - Unlicensed	ENUM16	0 → 1	Licensed (0)	License Ctrl (352)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	

## 5.15 DI Parameters

**Description:** The DI object provides the parameters for configuring digital inputs.

**Number of Instances:** 248 instances may exist (8 per MIO module).

**Storage Location:** Saved to internal configuration memory.

**Table 5-14: DI Parameters**

DI								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0 → 5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
MOD_LOC	Module Location	UINT8		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
CHANNEL	Channel	UINT8		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	

DI								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DESC	Description	UC20		Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
ZERO_DESC	Description of Off State	UC10		OFF		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
ONE_DESC	Description of On State	UC10		ON		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
USER_MODE	Operation Mode 0 - Live 1 - Override	ENUM16	0 → 1	Live (0)	User Selection (31)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FAULT_MODE	Fault Mode 0 - Fault 1 - Last Good	ENUM16	0 → 1	Fault (0)	IO Fault Selection (136)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

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DI								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
ACTUAL_MODE	Actual Mode 0 - Live 1 - Auto 2 - Auto Read 3 - Override 4 - Calibration 5 - Fault 6 - Last Good 7 - Last Hour Average 8 - Ramp to Fault Value 9 - Ramp to Last Hour Avg	ENUM16		Live (0)	Actual Mode (125)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DI_TYPE	Digital Input Type 0 - Normal 1 - Latched	ENUM16	0 → 1	Normal (0)	DI Type (132)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
INVERT	Digital Input Inversion Mode 0 - Disable 1 - Enable	ENUM16	0 → 1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FILTER_TIME	Digital Input Filter Time	FLOAT	0 → 300	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Verified</li> </ul>
LOGIC_LEVEL	Logic Level 0 - 66 microamps 1 - 2 milliamps	ENUM16	0→1	66 microamps (0)	Logic Level (133)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		Log Changes
LIVE	Live Value 0 - Off 1 - On	ENUM16	0 → 1	Off (0)	Digital Status (134)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	

DI								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SELECTED	Selected Value 0 - Off 1 - On	ENUM16		Off (0)	Digital Status (134)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
OVRD	Override Value 0 - Off 1 - On	ENUM16	0 → 1	Off (0)	Digital Status (134)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FAULT	Fault Value 0 - Off 1 - On	ENUM16	0 → 1	Off (0)	Digital Status (134)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
LAST_GOOD	Last Good Value 0 - Off 1 - On	ENUM16		Off (0)	Digital Status (134)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
ALARM_MODE	Digital Status Alarm Mode 0 - Off 1 - On	ENUM16	0→1	Off (0)	Digital Status (134)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OFF_ON_COUNT	Digital Input Off-On Transition Count	UINT32		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	
ACCUM_ONTIME	DI Accumulated On Time	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	
ACCUM_OFFTIME	DI Accumulated Off Time	FLOAT		0		<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	

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DI								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
INPUT_STATUS	Input Health Status 0 - Normal 1 - Not Licensed 2 - Instance Inactive 3 - Comm Fail 4 - Override Active 5 - In Alarm 6 - Point Fail 7 - Termination Missing 8 - Status Alarm 9 - Hardware Fail	BIN16		Normal	FB3000 DI Status (304)	Meas. Tech <b>R/O:</b> Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
RESET_LATCH	Reset Latch 0 - Disable 1 - Enable	ENUM16	0 → 1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	
RESISTOR_TYPE	Pull up or Pull down Resistor type 0 - Pull Up 1 - Pull Down	ENUM16	0 → 1	Pull Up (0)	DI/PI Resistor Selection (276)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

## 5.16 DNP3 Parameters

**Description:** The DNP3 object provides the parameters for configuring DNP3 communications on a specific port.

**Number of Instances:** 7 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-15: DNP3 Parameters**

DNP3								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		DNP3		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0 → 5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
LOGIN_TMOU	Inactivity Timeout	UINT16	30 → 1440	120	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
UNSOLICIT_MODE	Unsolicited Message Option 0 - Disable 1 - Enable	ENUM16	0 → 1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	Log Changes

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DNP3								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DNP_TCP_ENABLE	Enable TCP for DNP3 0 - Disable 1 - Enable	ENUM16	0 → 1	Instance: 1-4 & 7: Disable (0) 5-6: Enable (1)	Enable/Disable Selection (30)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
TCPIP_PORT	TCP/IP Port	UINT16		20000		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
ADDRESS	RTU Address	UINT16	0 → 65519	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
BIN_IN_SCAN_PRD	Binary Input Scan Period	UINT32	0 → 60	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
ANLG_IN_SCAN_PRD	Analog Input Scan Period	UINT32	0 → 60	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
BIN_CNTR_SCAN_PRD	Binary Counter Scan Period	UINT32	0 → 60	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes



DNP3								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CONFIRM_TIMEOUT	Master Confirmation Timeout	UINT32	1000 → 20000	10000		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
UNSOL_CFM_TIMEOUT	Unsolicited Confirmation Timeout	UINT32	1000 → 20000	10000		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
UNSOL_NUM_RETRIES	Unsolicited Number of retries	UINT16	1 → 65535	3		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
UNSOL_RETRY_DELAY	Delay between unsolicited retries	UINT32	1 → 65535	30000		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
UNSOL_CLASS1	Class 1 Unsolicited Msg enable 0 - Disable 1 - Enable	ENUM16	0 → 1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
UNSOL_CLASS2	Class 2 Unsolicited Msg enable 0 - Disable 1 - Enable	ENUM16	0 → 1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
UNSOL_CLASS3	Class 3 Unsolicited Msg enable 0 - Disable 1 - Enable	ENUM16	0 → 1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
UNSOL_CLASS1_MAX	Class 1 Unsolicited Max Events	UINT8	0 → 255	5		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
UNSOL_CLASS2_MAX	Class 2 Unsolicited Max Events	UINT8	0 → 255	5		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
UNSOL_CLASS3_MAX	Class 3 Unsolicited Max Events	UINT8	0 → 255	5		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
UNSOL_CLASS1_DELAY	Class 1 Unsolicited Max Delay	UINT32	1000 → 10000	5000		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
UNSOL_CLASS2_DELAY	Class 2 Unsolicited Max Delay	UINT32	1000 → 10000	5000		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
UNSOL_CLASS3_DELAY	Class 3 Unsolicited Max Delay	UINT32	1000 → 10000	5000		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
BIN_EVT_MAX	Maximum Binary Input events	UINT16	0 → 17	Instance: 1456		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

DNP3								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
ANLG_EVT_MAX	Maximum Analog Input events	UINT16	0 → 115	Instance: 1456		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
BIN_CNTR_EVT_MAX	Maximum Binary Counter events	UINT16	0 → 10	Instance: 1456		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FRZN_CNTR_EVT	Maximum Frozen Counter events	UINT16	0 → 1	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
UNSOL_DEST_ADDRESS	Unsolicited Destination Address	UINT16	0 → 65519	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
REQUIRE_LOGIN	Require Login 0 - No 1 - Yes	ENUM16	0 → 1	Yes (1)	Yes/No Option (208)	<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes

## 5.17 DNPSAV5 Parameters

- Description:** The DNPSAV5 object provides the parameters for configuring security authentication
- Number of Instances:** 1 instance may exist.
- Storage Location:** Saved to internal configuration memory.

**Table 5-16: DNPSAV5 Parameters**

DNPSAV5								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		DNP SAV5		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.12.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0 → 5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.12.0.XXX	Log Changes
OBJ_STATUS	Status: 0 - Normal 1 -In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.12.0.XXX	Log Changes
SA_STATUS	DNP3 Secure Authentication Status	ENUM16	0->1	0	Enable/Disable Selection (30)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.12.0.XXX	Log Changes
KEY_REQ_TIMEOUT	Reply Timeout	FLOAT	0->120	2	Duration (17)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.12.0.XXX	Log Changes

DNPSAV5								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
MAX_SES_KEY_STAT_CNT	Max session key status count	UINT8	2->255	5		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.12.0.XXX	Log Changes

## 5.18 DO Parameters

**Description:** The DO object provides the parameters for configuring digital outputs.

**Number of Instances:** 62 instances may exist (2 per MIO module).

**Storage Location:** Saved to internal configuration memory.

**Table 5-17: DO Parameters**

DO								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
MOD_LOC	Module Location	UINT8		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
CHANNEL	Channel	UINT8		Varies by instance		<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	

DO								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DESC	Description	UC20		Varies by instance		Meas. Tech Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DO_TYPE	Digital Output Type 0 - Latching 1 - Momentary 2 - Toggle 3 - Time Duration Output Momentary 4 - Time Duration Output Toggle 5 - Scaled Pulse Output	ENUM16	0→5	Latching (0)	Discrete Output Type (46)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
USER_MODE	Operation Mode 0 - Auto 1 - Override 2 - Auto Read	ENUM16	0→2	Auto (0)	IO Output User Selection (131)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FAULT_MODE	Fault Mode 0 - Fault 1 - Last Good	ENUM16	0→1	Last Good (1)	IO Fault Selection (136)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
ACTUAL_MODE	Actual Mode 0 - Live 1 - Auto 2 - Auto Read 3 - Override 4 - Calibration 5 - Fault 6 - Last Good 7 - Last Hour Average	ENUM16		Live (0)	Actual Mode (125)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	8 - Ramp to Fault Value 9 - Ramp to Last Hour Avg							
SELECTED	Selected Value 0 - Off 1 - On	ENUM16		Off (0)	Digital Status (134)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
AUTO	Auto Value 0 - Off 1 - On	ENUM16	0→1	Off (0)	Digital Status (134)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	
AUTO_EU	Auto EU Value	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	
AUTO_READ_VAL	Auto Read Value	UINT8		0	Off (134-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
AUTO_READ_PARAM	Auto Read Parameter Reference	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OVRD	Override Value 0 - Off 1 - On	ENUM16	0→1	Off (0)	Digital Status (134)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
ZERO_DESC	Description of Off State	UC10		OFF		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes



DO								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
ONE_DESC	Description of On State	UC10		ON		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FAULT	Fault Value 0 - Off 1 - On	ENUM16	0→1	Off (0)	Digital Status (134)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
TIME_ON	Time On	FLOAT	0 → 3600	1	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	
TIME_OFF	Time Off	FLOAT	0 → 3600	1	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
ACCUM	Number of Off-On Transitions	UINT32		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	
TDO_CYCLE_TIME	Time Duration Output Cycle Time	FLOAT	1 → 3600	15	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
TDO_LOW_EU	Time Duration Output Low EU	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

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DO								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TDO_HIGH_EU	Time Duration Output High EU	FLOAT		100		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
TDO_0%_TIME	Time Duration Output 0% Time	FLOAT		3	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Verified</li> </ul>
TDO_100%_TIME	Time Duration Output 100% Time	FLOAT		12	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Verified</li> </ul>
TDO_TIME_ON	TDO Time On	FLOAT		0	s (17-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
TDO_TIME_OFF	TDO Time Off	FLOAT		0	s (17-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
SPO_INPUT_PRM	Scaled Pulse Output Parameter Reference	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
SPO_INPUT_VAL	Scaled Pulse Output Value	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
SPO_ACCUM_LIMIT	Pulse Output Significance	FLOAT	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	Log Changes

DO								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OUTPUT_STATUS	Output Health Status 0 - Normal 1 - Not Licensed 2 - Instance Inactive 3 - Comm Fail 4 - Override Active 5 - In Alarm 6 - Point Fail 7 - Auto Read Parameter Invalid 8 - SPO Parameter Invalid 9 - Termination Missing 10 - Status Alarm 11 - Hardware Fail	Bin16		Normal	FB3000 DO Status (303)	R/O: Operator; Auditor R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
RESET_MODE	Action on Power Cycle 0 - Fault 1 - Last Good	ENUM16	0→1	Last Good (1)	IO Fault Selection (136)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
ALARM_MODE	Digital Status Alarm Mode 0 - Off 1 - On	ENUM16	0→1	Off (0)	Digital Status (134)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
LOW_SIDE_SWITCH	Low-side Switch 0 - Disable grounded output 1 - Enable grounded output	ENUM16	0→1	Disable grounded output (0)	DO low Side Switch (284)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes

## 5.19 DP Meter Parameters

**Description:** The DP Meter object provides the parameters for configuring differential pressure meters.

**Number of Instances:** 36 instances may exist (varies with license installed and user-configured number).

**Storage Location:** Saved to internal configuration memory.

**Table 5-18: DP Meter Parameters**

DP Meter								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "DP Mtr_X" (where X is instance number between 1 and 36)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0 → 5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
STATION_OBJ	Station Assignment	ObjectRef	Station	Station_1		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

DP Meter								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FLUID_PROP_OBJ	Fluid Properties Reference	ObjectRef	Fluid Prop	Instance: "Fluid Prop_X" (where X is instance number between 1 and 24)		R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MTR_TYPE	Meter Type 0 - AGA3 Orifice (Flange Taps) 1 - ISO5167 Orifice (Flange Taps) 2 - ISO5167 Orifice (Corner Taps) 3 - ISO5167 Orifice (D & D/2 Taps) 4 - ISO5167 Venturi (As Cast) 5 - ISO5167 Venturi (Machined) 6 - ISO5167 Venturi (Rough Weld) 7 - ISO5167 Nozzle (Venturi) 8 - ISO5167 Nozzle (Long Radius) 9 - ISO5167 Nozzle (ISA 1932) 10 - 1595 Conditioning Orifice (Flange) 11 - 1595 Conditioning Orifice (D and D/2) 12 - 405C Compact Orifice 13 - Cone (McCrometer V-Cone) 14 - Cone (McCrometer Wafer-Cone) 15 - Cone (NUFLO)	ENUM16	0 → 15	AGA3 Orifice (Flange Taps) (0)	Meter Type Selection (50)	R/W: Admin; Engineer; Meas. Tech  R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FLW_DIR	Flow Direction 0 - Forward 1 - Reverse	ENUM16	0→1	Forward (0)	Meter Direction (253)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SER_NUM	Serial Number	UC20		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
AGA3_METHOD	AGA 3 Calculation Selection 0 - AGA3 1992 Volume 1 - AGA3 1992 Mass 2 - AGA3 1992 Relative Density 3 - AGA3 2013 Volume 4 - AGA3 2013 Mass 5 - AGA3 2013 Relative Density	ENUM16	0→5	AGA3 2013 Volume (3)	AGA 3 Calculation Method (51)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ISO5167_METHOD	ISO 5167 Calculation Selection 0 - ISO5167 1991 1 - ISO5167 1998 2 - ISO5167 2003	ENUM16	0→2	ISO5167 2003 (2)	ISO 5167 Calculation Method (52)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
RMT_ORIF_METHO D	Rosemount Orifice Calculation 0 - Based on ISO5167 2003	ENUM16	0→0	Based on ISO5167 2003 (0)	Rosemount Orifice Method (186)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ABAR_METHOD	Annubar Calc Selection 0 - 485-1 1 - 485-2 2 - 485-3	ENUM16	0→2	485-1 (0)	Annubar Calc Selection (77)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

DP Meter								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
MTR_DIAM	Meter Diameter	DOUBLE	≥ 0.0001	4	in (7-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>Log Changes</li> <li>Legal</li> </ul>
PIPE_DIAM	Pipe Diameter	DOUBLE	≥ 0.0001	8	in (7-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>Log Changes</li> <li>Legal</li> </ul>
PRESS_LOC	Static Pressure Location 0 - Upstream 1 - Downstream	ENUM16	0→1	Upstream (0)	Pressure Location (58)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>Log Changes</li> <li>Legal</li> </ul>
PRESS_TYPE	Pressure Transmitter Type 0 - Gauge 1 - Absolute	ENUM16	0→1	Absolute (1)	SP Type Selection (57)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>Log Changes</li> <li>Legal</li> </ul>
TEMP_CORR_METHOD	Temperature Correction 0 - No Correction 1 - Isentropic 2 - Isenthalpic (Joule-Thomson)	ENUM16	0→2	No Correction (0)	Temperature Correction Selection (120)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>Log Changes</li> <li>Legal</li> </ul>
NO_FLOW_LIM	No Flow Cut-off Limit	DOUBLE	≥ 0	0	inH2O (1-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>Log Changes</li> <li>Legal</li> </ul>
NO_FLOW_STATUS	No Flow Status 0 - Not Flowing 1 - Flowing	ENUM16		Not Flowing (0)	No Flow Status (239)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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DP Meter								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DP_OBJ	Differential Pressure Object	ObjectRef		Instance: 1-24: Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
PF_OBJ	Static Pressure Object	ObjectRef		Instance: 1-24: Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
TF_OBJ	Flowing Temperature Object	ObjectRef		Instance: 1-24: Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DP_INUSE	Differential Pressure In Use	DOUBLE		0	inH2O (1-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
PF_INUSE	Flowing Pressure In Use	DOUBLE		0	psi(a) (2-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
TF_INUSE	Flowing Temperature In Use	DOUBLE		0	°F (3-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
PIPE_MAT_OPT	Pipe Material Option 0 - Carbon Steel 1 - 304 Stainless Steel 2 - 316 Stainless Steel 3 - Generic Stainless 4 - Monel 400 5 - User Entered Alpha	ENUM16	0→5	Carbon Steel (0)	Material Selection (59)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>



DP Meter								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
MTR_MAT_OPT	Meter Material Option 0 - Carbon Steel 1 - 304 Stainless Steel 2 - 316 Stainless Steel 3 - Generic Stainless 4 - Monel 400 5 - User Entered Alpha	ENUM16	0→5	316 Stainless Steel (2)	Material Selection (59)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
PIPE_DIAM_REF	Pipe Diameter Reference Temperature	DOUBLE		68	°F (3-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MTR_DIAM_REF	Meter Diameter Reference Temperature	DOUBLE		68	°F (3-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MTR_ALPHA_OVRD	Meter Material User Alpha	DOUBLE		0.00000889	in./in.-°F (222-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MTR_ALPHA_SEL	Meter Material Alpha	DOUBLE		0.00000889	in./in.-°F (222-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
PIPE_ALPHA_OVRD	Pipe Material User Alpha	DOUBLE		0.0000062	in./in.-°F (222-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
PIPE_ALPHA_SEL	Pipe Material Alpha	DOUBLE		0.0000062	in./in.-°F (222-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

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FLW_ALM_Obj	Flow Alarm Object	ObjectRef		Instance: "Alarm_X" (where X is instance number between 1 and 24)		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
FCALC_ALM	Flow Calculation Alarm Code 0 - Normal 1 - Invalid Input(s) 2 - Invalid Configuration 3 - Calculation Error 4 - Boundary Error 5 - Invalid Station Assignment 6-8 - Undefined 9 - Differential Pressure 10 - Pressure 11 - Temperature 12 - Flowing Density/Compressibility 13 - Base Density/Compressibility 14 - Relative Density 15 - Heating Value/Enthalpy 16 - Viscosity 17 - User Correction Factor 18 - Total/Increment 19 - Integral Multiplier Value 20-25 - Undefined 26 - Beta Ratio 27 - DP/P Ratio 28 - Isentropic Exponent 29 - Reynolds Number 30 - Pressure Loss/Pressure Loss Ratio 31 - Alpha 32 - Expansion Factor	BIN32		Normal	DP Flow Calculation Alarm (206)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal

DP Meter								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
MTR_DIAM_SEL	Corrected Meter Diameter	DOUBLE	≥ 0.0001	4	in (7-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
PIPE_DIAM_SEL	Corrected Pipe Diameter	DOUBLE	≥ 0.0001	8	in (7-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
BETA_SEL	Selected Diameter Ratio	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
PLOSS_SEL	Selected Pressure Loss	DOUBLE	≥ 0	0	inH2O (1-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
REL_PLOSS_RATIO	Relative Pressure Loss Ratio	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
RE_SEL	Reynolds Number	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
CD_OVRD	Discharge Coefficient Override	DOUBLE	0.1→1	0.6		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CD_CALC	Discharge Coefficient Calculated	DOUBLE		0.6		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CD_UMODE	Discharge Coefficient User Mode 1 - Override 2 - Calculated	ENUM16	1→2	Calculated (2)	User Mode Selection 2 (97)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CD_SEL	Selected Discharge Coefficient	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
PIPE_SCHED	Pipe Schedule 0 - Schedule 10 1 - Schedule 40 2 - Schedule 80	ENUM16	0→2	Schedule 10 (0)	Pipe Schedule (184)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FS_SEL	Pipe Schedule Adjustment Factor	DOUBLE		1		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
COEFF_CURVE_OPT	Discharge Coefficient Option 0 - Flow Equation Standard 1 - Calibrated Discharge Coefficient Curve	ENUM16	0→1	Flow Equation Standard (0)	Calculated Cd (223)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_1	Discharge/Flow Coefficient 1	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_1_FLOW	Reynolds Number / Flowrate 1	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_2	Discharge/Flow Coefficient 2	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer;		<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

DP Meter								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
						Meas. Tech <b>R/O:</b> Operator; Auditor		
COEFF_2_FLOW	Reynolds Number / Flowrate 2	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_3	Discharge/Flow Coefficient 3	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_3_FLOW	Reynolds Number / Flowrate 3	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_4	Discharge/Flow Coefficient 4	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_4_FLOW	Reynolds Number / Flowrate 4	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_5	Discharge/Flow Coefficient 5	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_5_FLOW	Reynolds Number / Flowrate 5	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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COEFF_6	Discharge/Flow Coefficient 6	DOUBLE	≥ 0	0		Meas. Tech <b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_6_FLOW	Reynolds Number / Flowrate 6	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_7	Discharge/Flow Coefficient 7	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_7_FLOW	Reynolds Number / Flowrate 7	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_8	Discharge/Flow Coefficient 8	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_8_FLOW	Reynolds Number / Flowrate 8	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_9	Discharge/Flow Coefficient 9	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

DP Meter								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
						Meas. Tech <b>R/O:</b> Operator; Auditor		
COEFF_9_FLOW	Reynolds Number / Flowrate 9	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_10	Discharge/Flow Coefficient 10	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_10_FLOW	Reynolds Number / Flowrate 10	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_11	Discharge/Flow Coefficient 11	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_11_FLOW	Reynolds Number / Flowrate 11	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_12	Discharge/Flow Coefficient 12	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_12_FLOW	Reynolds Number / Flowrate 12	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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						Meas. Tech <b>R/O:</b> Operator; Auditor		
COEFF_13	Discharge/Flow Coefficient 13	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_13_FLOW	Reynolds Number / Flowrate 13	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_14	Discharge/Flow Coefficient 14	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_14_FLOW	Reynolds Number / Flowrate 14	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_15	Discharge/Flow Coefficient 15	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_15_FLOW	Reynolds Number / Flowrate 15	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_16	Discharge/Flow Coefficient 16	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>



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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
						Meas. Tech <b>R/O:</b> Operator; Auditor		
COEFF_16_FLOW	Reynolds Number / Flowrate 16	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_17	Discharge/Flow Coefficient 17	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_17_FLOW	Reynolds Number / Flowrate 17	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_18	Discharge/Flow Coefficient 18	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_18_FLOW	Reynolds Number / Flowrate 18	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_19	Discharge/Flow Coefficient 19	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_19_FLOW	Reynolds Number / Flowrate 19	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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COEFF_20	Discharge/Flow Coefficient 20	DOUBLE	≥ 0	0		Meas. Tech <b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COEFF_20_FLOW	Reynolds Number / Flowrate 20	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
Y1_SEL	Selected Upstream Expansion Factor	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
EV_SEL	Velocity of Approach	DOUBLE		1		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
IV_SEL	Integral Value	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
IMV_SEL	Integral Multiplier Value (IMV/C-Factor)	DOUBLE		1		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
USER_CORR_FACTOR	User Correction Factor	DOUBLE	≥ 0	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
UVOL_RATE	Uncorrected Volume Flow Rate	DOUBLE		0	MCF/d (12-7)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SVOL_RATE	Corrected Volume Flow Rate	DOUBLE		0	MCF/d (12-7)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
MASS_RATE	Mass Flow Rate	DOUBLE		0	Mlb/d (13-7)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
ENERGY_RATE	Energy Flow Rate	DOUBLE		0	MMBtu/d (14-7)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
UVOL_RAW_TOT	Uncorrected Volume Total	DOUBLE		0	MCF (9-2)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SVOL_RAW_TOT	Corrected Volume Total	DOUBLE		0	MCF (9-2)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
MASS_RAW_TOT	Mass Total	DOUBLE		0	Mlb (10-2)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
ENERGY_RAW_TOT	Energy Total	DOUBLE		0	MMBtu (11-1)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
FLWTM_RAW_TOT	Flow Time Total	DOUBLE		0	s (359-0)	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
IV_RAW_TOT	Integral Value Total	DOUBLE		0		Meas. Tech; Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
UVOL_TOT_OBJ	Uncorrected Volume Total Object	ObjectRef	Total	Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SVOL_TOT_OBJ	Corrected Volume Total Object	ObjectRef	Total	Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MASS_TOT_OBJ	Mass Total Object	ObjectRef	Total	Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ENERGY_TOT_OBJ	Energy Total Object	ObjectRef	Total	Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FLWTM_TOT_OBJ	Flow Time Total Object	ObjectRef	Total	Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
IV_TOT_OBJ	Integral Value Total Object	ObjectRef	Total	Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

DP Meter								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
INSPECT_TIME	Last Meter Inspection Time	Time		Undefined		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CALIB_FACTOR	Calibration Factor	DOUBLE	≥ 0.0001	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
UVOL_FLT_TOT_OBJ	Uncorrected Volume Fault Total Object	ObjectRef	Total	Varies by instance		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.9.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SVOL_FLT_TOT_OBJ	Corrected Volume Fault Total Object	ObjectRef	Total	Varies by instance		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.9.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MASS_FLT_TOT_OBJ	Mass Fault Total Object	ObjectRef	Total	Varies by instance		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.9.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ENERGY_FLT_TOT_OBJ	Energy Fault Total Object	ObjectRef	Total	Varies by instance		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.9.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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DP Meter								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
Y1_OVRD	Override Upstream Expansion Factor	DOUBLE	0.1→2	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.14.0.XX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
Y1_UMODE	Upstream Expansion Factor	ENUM16		2	User Mode Selection 3 (97)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.14.0.XX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

## 5.20 DP Parameters

**Description:** The DP object provides the parameters for configuring differential pressure sensors.

**Number of Instances:** 20 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-19: DP Parameters**

DP								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "4088B_X DP" (where X is instance number between 1 and 20)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
MOD_LOC	Module Location	UINT8		1		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
CHANNEL	Channel	UINT8		Instance: "1_X" (where X is instance number between 1 and 20)		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

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DP								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DESC	Description	UC20		Instance: "4088B_X DP" (where X is instance number between 1 and 20)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
UNITS	Units 0 - inH2O@60°F 1 - inH2O@68°F 2 - kPa 3 - mbar 4 - kg/cm² 5 - psi 6 - bar	ENUM16	0→6	inH2O@60°F (0)	Differential Pressure Selection (26)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LIVE	Live Value	FLOAT		0	inH2O (1-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
OVRD	Override Value	FLOAT		0	inH2O (1-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FAULT	Fault Value	FLOAT		0	inH2O (1-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LAST_GOOD	Last Good Value	FLOAT		0	inH2O (1-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SELECTED	Selected Value	FLOAT		0	inH2O (1-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal



DP								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
USER_MODE	Operation Mode 0 - Live 1 - Override	ENUM16	0→1	Live (0)	User Selection (31)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FAULT_MODE	Fault Mode 0 - Live 1 - Fault 2 - Last Good 3 - Last Hour Average	ENUM16	0→3	Live (0)	Fault Selection (32)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
REV_DP	Reverse Differential Pressure	FLOAT		0	inH2O (1-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
DAMPING	Damping Time	FLOAT	0→60	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ALM_OBJ	Alarm Reference	ObjectRef		Instance: 1-Alarm_2001 2-Alarm_2004 3-Alarm_2007 4-Alarm_2010 5-Alarm_2013 6-Alarm_2016 7-Alarm_2019 8-Alarm_2022 9-Alarm_2025 10-Alarm_2028 11-Alarm_2031 12-Alarm_2034 13-Alarm_2037 14-Alarm_2040 15-Alarm_2043		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

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DP								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
				16-Alarm_2046 17-Alarm_2049 18-Alarm_2052 19-Alarm_2055 20-Alarm_2058				
URL	Upper Range Limit	FLOAT		0	inH2O (1-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
LRL	Lower Range Limit	FLOAT		0	inH2O (1-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
MONITOR_MAX	Monitor Maximum	FLOAT		250	inH2O (1-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
MONITOR_MIN	Monitor Minimum	FLOAT		0	inH2O (1-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
MIN_SPAN	Minimum Span	FLOAT		0	inH2O (1-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
INPUT_STATUS	Input Health Status 0 - Normal 1 - Not Licensed 2 - Instance Inactive 3 - Comm Fail 4 - Override Active 5 - In Alarm 6 - Point Fail	BIN16		Normal	Alarm Status DP SP (44)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

DP								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	7 - Above URL 8 - Below LRL 9 - Input Frozen							
CAL_OBJ	Calibration Reference	ObjectRef		Instance: 1-FLTCa_1-1 2-FLTCa_1-4 3-FLTCa_1-7 4-FLTCa_1-10 5-FLTCa_1-13 6-FLTCa_1-16 7-FLTCa_1-19 8-FLTCa_1-22 9-FLTCa_1-25 10-FLTCa_1-28 11-FLTCa_1-31 12-FLTCa_1-34 13-FLTCa_1-37 14-FLTCa_1-40 15-FLTCa_1-43 16-FLTCa_1-46 17-FLTCa_1-49 18-FLTCa_1-52 19-FLTCa_1-55 20-FLTCa_1-58		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
LAST_HOUR_AVERAGE	Last Hour Average Value	FLOAT		0	inH2O (1-0)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	Legal

## 5.21 Effect Parameters

**Description:** The Effect object provides the parameters for configuring custom logic components.

**Number of Instances:** Between 0 and 100 instances may exist; by default, 16 exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-20: Effect Parameters**

Effect								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "Effect_X" (where X is instance number between 1 and 100)		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
DESC	Description	UC20		Instance: "Effect_X" (where X is instance number between 1 and 100)		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
EFFECT_ENABLE	Enable Switch 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer <b>R/O:</b>	2.0.0.XXX	Log Changes

Effect								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OUT_POINT	Output Definition	ParamRef		Undefined		Meas. Tech; Operator; Auditor <b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
OUT_DESC	Description	UC20		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
OUT_VALUE	Value	FLOAT		0		<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
ACTIVE_VALUE	Output Active Value to Write	FLOAT		0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
INACTIVE_VALUE	Output Inactive Value to Write	FLOAT		0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
INACTIVE_VAL_SET	Inactive Value Set Enable 0 - Disable 1 - Enable	ENUM16	0→1	Enable (1)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
ASSERT_OUTVAL_TYPE	Assert Output Continuously 0 - Neither State 1 - Active State Only	ENUM16	0→3	Both States (3)	Effect Output Assert Type (175)	<b>R/W:</b> Admin; Engineer <b>R/O:</b>	2.0.0.XXX	Log Changes

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Effect								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	2 - Inactive State Only 3 - Both States					Meas. Tech; Operator; Auditor		
EFFECT_TRIP_STATUS	Effect Trip Status 0 - Inactive 1 - Active	ENUM16		Inactive (0)	Action Block Status (166)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
FIRST_OUT_INST	First Out Effect Instance	UINT16		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
FIRST_OUT_TAG	First Out Effect Tag	UC20		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
REQUIRES_RESET	Effect Requires Reset When Tripped 0 - No Reset Required 1 - Reset Required	ENUM16	0→1	No Reset Required (0)	Effect Reset Option (176)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
RESET_POINT	Reset Definition	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
RESET_READY	Effect Ready for Reset 0 - No Reset Needed 1 - Ready for Reset	ENUM16	0→1	No Reset Needed (0)	Effect Reset Ready Values (177)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
RESET_CMD_VALUE	Reset Command Value	UINT8		0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes

## 5.22 FBxNConfig Parameters

**Description:** The FBxNConfig object provides the parameters for configuring a communication port for FBxNet data transfer.

**Number of Instances:** 7 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-21: FBxNConfig Parameters**

FBxNConfig								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		FBxNet Config		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Log Changes
OBJ_STATUS	Status: 0 – Normal 1 – In Alarm 2 – Failure 3 – Override 4 – Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	
TCP_CONN_TIMEOUT	TCP Connection Timeout	UINT16	1→75	3	Duration (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Log Changes
RX_TIMEOUT	Receive Timeout	UINT16	1→300	5	Duration (17-0)	<b>R/W:</b> Admin; Engineer;	2.5.0.XXX	Log Changes

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FBxNConfig								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
RETRIES_NUM	Number of retries	UINT8	0→10	1		Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Log Changes
PUB_COMM_ENABLE	Enable Communications as a Pub Device 0 – Disabled 1 – Enable Read/Write 2 – Enable Read Only	ENUM16	0→2	0	Publisher Comm Enable (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Log Changes
RELOAD FILES	Reload Port Files 0 – Cancel 1 – Start	ENUM16	0→1	0	Start Poll (158)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Non-persistent
CONN_PARSE_STATUS	Connection File Parsing Status 0 – No Error 1 – File Open Fail 2 – Column Mismatch 3 – Missing Required Column 4 – Exceeded Max Data Point 5 - Empty Subscriber Tag 6 - Invalid FBxNet Data Instance 7 - Missing or Invalid Required Value 8 - Duplicate FBxNet Data Instance 9 - Not Configured 10 - Exceeded Publisher Fault	BIN32		0	Connection File Status (340)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Non-persistent



FBxNConfig								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SCAN_RATE	Scan Rate	FLOAT	0.5→60	5	Duration (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Log Changes
ACTUAL_POLL_TIME	Actual Poll Time	FLOAT		0	Duration (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	
POLL_CYCLE	Poll Cycle 0 - Off 1 - On	ENUM16	0→1	0	FBxNet Poll Cycle (341)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Log Changes
MAX_DATA_POINTS	Max Supported Data Points	UINT32		Instance: 1-4 & 7: 0 5-6: 5000		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	
USED_DATA_POINTS	Current In Use Data Points	UINT32		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	Non-Persistent
CUR_CONNECT	Current Number of Connections	UINT16		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	
PUB_WATCHDOG_TIMER	Publisher Watchdog Timer	UNIT16	0 →300	10	Duration (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Log Changes

## 5.23 FBxNData Parameters

**Description:** The FBxNData object provides the parameters for configuring FBxNData.

**Number of Instances:** 5000 instances may exist

**Storage Location:** Saved to internal configuration memory.

**Table 5-22: FBxNData Parameters**

FBxNDevice								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		FBxNet Data		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.5.0.XXX	
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.5.0.XXX	
PUB_TAG	Publisher Mapped Tag	UC40				<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.5.0.XXX	
SELECTED_FLOAT	Selected Float Value	Float		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.5.0.XXX	

FBxNDevice								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SELECTED_DOUBLE	Selected Double Value	Double		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.5.0.XXX	
SELECTED_LONG	Selected Long Value	UINT32		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.5.0.XXX	
INPUT_STATUS	Input Health Status	BIN32		Normal	FBxNData Input Status (348)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.5.0.XXX	
FAULT_MODE	Fault Mode	ENUM16	0 → 2	Live (0)	Fault Selection (32)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.5.0.XXX	
FAULT	Fault Value	Double		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.5.0.XXX	
LAST_GOOD	Selected Value	Double		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.5.0.XXX	

## 5.24 FBxNDevice Parameters

**Description:** The FBxNDevice object provides the parameters for viewing details about an FBxNet publisher device.

**Number of Instances:** 20 instances may exist (10 per Ethernet port).

**Storage Location:** Saved to internal configuration memory.

**Table 5-23: FBxNDevice Parameters**

FBxNDevice								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		FBxNet Device		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.5.0.XXX	
CONN_STATUS	Connection Status 0 - Not Started 1 - Connecting 2 - Resolving 3 - Online 4 - Offline 5 - Invalid 6 - Connection Timeout	ENUM16		0	FBxNet Device Connection Status (327)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Non-Persistent

FBxNDevice								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	7 - Transmit Error 8 - Response Timeout 9 - Resolving Failure 10 - Read Failure 11 - Disabled 12 - Online with Parameter Error(s) 13 - No Account Found 14 - Authentication Failed 15 - Authenticating							
MAP_PARSE_STATU S	Map File Parsing Status 0 - No Error 1 - File Open Fail 2 - Column Mismatch 3 - Missing Required Column 4 - Exceeded Max Data Points 5 - Empty Subscriber Tag 6 - Invalid FBxNet Data Instance 7 - Missing or Invalid Required Value 8 - Duplicate FBxNet Data Instance 9 - Not Configured 10 - Exceeded Publisher Fault	BIN32		0	Connection File Status (340)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Non-Persistent
MAP_ROWS_ LOADED	Map Rows Loaded	UJINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Non-Persistent
DEVICE_NAME	Device Name	UC40				<b>R/W:</b> Admin; Engineer; Meas. Tech	2.5.0.XXX	Non-Persistent

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FBxNDevice								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
ENABLED	Enabled 0 - Disable 1 - Enable	ENUM16		0	Enable/Disable Selection (30)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Non-Persistent
IP_ADDRESS	IP Address	BYTE4		0x00000000	IPv4 Address (41-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Non-Persistent
MAP_FILE_NAME	Map File Name	UC40				<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Non-Persistent
PARAM_ERR_COUNT	Parameter Error Count	UINT32		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Non-Persistent

## 5.25 FLTCal Parameters

**Description:** The FLTCal object provides the parameters for DP, Press, and RTD calibrations.

**Number of Instances:** 60 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-24: FLTCal Parameters**

FLTCal								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "FLTCal_1-X" (where X is instance number between 1 and 60)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20		Instance: "FLTCal_1-X" (where X is instance number between 1 and 60)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
TIMEOUT	Inactivity Timeout	UINT16	1→ 1440	60	min (17-1)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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FLTCal								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TO_TIME_REMAINING	Remaining Time Before Timeout	UINT16		0	min (17-1)	R/O: Operator; Auditor	2.0.0.XXX	Legal
LAST_CAL	Time of Last Calibration	Time		Undefined		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
ZERO_SHIFT	Zero Shift	FLOAT		0	Instance: 1 - inH2O (1-0) 2 - psi(a) (2-0) 3 - °F (242-0) Instances 4 through 60 repeat the same pattern as above for every three instances (that is, 4,5,6; 7,8,9, and so on)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
USER_ZERO_VAL	Calibrated Zero	FLOAT		0	Instance: see ZERO_SHIFT above	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
USER_SPAN_VAL	Calibrated Span	FLOAT		0	Instance: see ZERO_SHIFT above	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
USER_MID1_VAL	Calibrated Midpoint 1	FLOAT		0	Instance: see ZERO_SHIFT above	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal



FLTCal								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
USER_MID2_VAL	Calibrated Midpoint 2	FLOAT		0	Instance: see ZERO_SHIFT above	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
USER_MID3_VAL	Calibrated Midpoint 3	FLOAT		0	Instance: see ZERO_SHIFT above	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
VER_DATE	Time of Last Verification	Time		0		<b>R/W:</b> Admin; Engineer; <b>R/O:</b> Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
VER_PT1_FOUND	Verification Point 1 As Found	FLOAT		0	Instance: see ZERO_SHIFT above	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
VER_PT2_FOUND	Verification Point 2 As Found	FLOAT		0	Instance: see ZERO_SHIFT above	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
VER_PT3_FOUND	Verification Point 3 As Found	FLOAT		0	Instance: see ZERO_SHIFT above	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
VER_PT4_FOUND	Verification Point 4 As Found	FLOAT		0	Instance: see ZERO_SHIFT above	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
VER_PT5_FOUND	Verification Point 5 As Found	FLOAT		0	Instance: see ZERO_SHIFT above	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

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FLTCal								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
VER_PT6_FOUND	Verification Point 6 As Found	FLOAT		0	Instance: see ZERO_SHIFT above	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
VER_PT7_FOUND	Verification Point 7 As Found	FLOAT		0	Instance: see ZERO_SHIFT above	<b>R/O:</b> Admin; Engineer; Meas. Tech;; Operator; Auditor	2.0.0.XXX	Legal
VER_PT1_LEFT	Verification Point 1 As Left	FLOAT		0	Instance: see ZERO_SHIFT above	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
VER_PT2_LEFT	Verification Point 2 As Left	FLOAT		0	Instance: see ZERO_SHIFT above	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
VER_PT3_LEFT	Verification Point 3 As Left	FLOAT		0	Instance: see ZERO_SHIFT above	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
VER_PT4_LEFT	Verification Point 4 As Left	FLOAT		0	Instance: see ZERO_SHIFT above	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
VER_PT5_LEFT	Verification Point 5 As Left	FLOAT		0	Instance: see ZERO_SHIFT above	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
VER_PT6_LEFT	Verification Point 6 As Left	FLOAT		0	Instance: see ZERO_SHIFT above	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
VER_PT7_LEFT	Verification Point 7 As Left	FLOAT		0	Instance: see ZERO_SHIFT above	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

FLTCal								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CAL_STATUS	Calibration Status 0 - Calibration Not In Progress 1 - Input Frozen 2 - Calibration In Progress 3 - Reserved 4 - Set Command Failed 5 - Timeout Occurred 6 - Span Too Small 7 - Excess Correction 8 - Passed Parameter Too Small 9 - Passed Parameter Too Large 10 - Ideal Value Too Small 11 - Ideal Value Too Large 12 - Wrong Command 13 - Verification In Progress	BIN16		Calibration Not In Progress	Calibration Status (150)	Meas. Tech; Operator; Auditor  R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
CAL_COMMAND	Calibration command 0 - None 1 - Freeze 2 - Start Calibration 3 - Set Zero 4 - Set Span 5 - Set Mid1 6 - Set Mid2 7 - Set Mid3 8 - Set Zero Shift 9 - Save Calibration 10 - Unfreeze 11 - Cancel Calibration 12 - Restore Factory Defaults 13 - Start Verification	ENUM16		Unfreeze (10)	Calibration Command (149)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

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FLTCal								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	14 - Set Verification Pt1							
	15 - Set Verification Pt2							
	16 - Set Verification Pt3							
	17 - Set Verification Pt4							
	18 - Set Verification Pt5							
	19 - Set Verification Pt6							
	20 - Set Verification Pt7							
	21 - Verification Done							
	22 - Restored Successfully							
	23 - Restore Failed							

## 5.26 Fluid Prop Parameters

**Description:** The Fluid Prop object provides the parameters for configuring the physical properties of the fluid flowing through each meter.

**Number of Instances:** 36 instances may exist (varies with the number and type of configured meter runs).

**Storage Location:** Saved to internal configuration memory.

**Table 5-25: Fluid Properties Parameters**

Fluid Prop								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "DP Mtr_X FIProp" (where X is instance number between 1 and 36 <b>or</b> between 101 and 136)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0 → 5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20				<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Fluid Prop								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
COMPONENTS_OBJ	Components Object	ObjectRef	Components	Instance: "Components_X" (where X is instance number between 1 and 24 or between 101 and 124)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C1_INUSE	In-use Methane	DOUBLE		100	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
N2_INUSE	In-use Nitrogen	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
CO2_INUSE	In-use Carbon Dioxide	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
C2_INUSE	In-use Ethane	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
C3_INUSE	In-use Propane	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
H2O_INUSE	In-use Water	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
H2S_INUSE	In-use Hydrogen Sulfide	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

Fluid Prop								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
H2_INUSE	In-use Hydrogen	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
CO_INUSE	In-use Carbon Monoxide	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
O2_INUSE	In-use Oxygen	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
IC4_INUSE	In-use i-Butane	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
NC4_INUSE	In-use n-Butane	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
IC5_INUSE	In-use i-Pentane	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
NC5_INUSE	In-use n-Pentane	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
C6_INUSE	In-use n-Hexane	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
C7_INUSE	In-use n-Heptane	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

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Fluid Prop								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
C8_INUSE	In-use n-Octane	DOUBLE		0	% (18-0)	Meas. Tech; Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
C9_INUSE	In-use n-Nonane	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
C10_INUSE	In-use n-Decane	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
HE_INUSE	In-use Helium	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
AR_INUSE	In-use Argon	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
NEOC5_INUSE	In-use Neopentane	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
BENZENE_INUSE	In-use Benzene	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
TOLUENE_INUSE	In-use Toluene	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal



Fluid Prop								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
H2O_CONTENT_UMODE	Water Content Mode 0 - Measured 1 - Override 2 - Calculated	ENUM16	0→3	Calculated (2)	User Mode Selection 1 (79)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2O_CONTENT_PARAM	Water Content Parameter	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2O_CONTENT_OVRD	Override Water Content	DOUBLE	≥ 0	0	lb/MMSCF (21-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2O_CONTENT_CALC	Calculated Water Content	DOUBLE		0	lb/MMSCF (21-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
H2O_CONTENT_SEL	Selected Water Content	DOUBLE		0	lb/MMSCF (21-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
HV_REAL_UMODE	Heating Value Mode 0 - Measured 1 - Override 2 - Calculated	ENUM16	0→2	Calculated (2)	User Mode Selection 1 (79)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
HV_REAL_PARAM	Heating Value Parameter	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
HV_REAL_OVRD	Override Heating Value	DOUBLE	≥ 0	0	Btu/ft <sup>3</sup> (5-0)	<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Fluid Prop								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
HV_REAL_CALC	Calculated Heating Value	DOUBLE		0	Btu/ft <sup>3</sup> (5-0)	Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
HV_REAL_SEL	Selected Heating Value	DOUBLE		0	Btu/ft <sup>3</sup> (5-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
HV_REAL_FAULT	Heating Value Fault Value	DOUBLE	≥ 0	0	Btu/ft <sup>3</sup> (5-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
HV_REAL_FAULT_MODE	Heating Value Fault Mode 0 - Live 1 - Fault 2 - Last Good	ENUM16	0→2	Live (0)	Fault Selection (32)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
RD_REAL_UMODE	Relative Density Mode 0 - Measured 1 - Override 2 - Calculated	ENUM16	0→2	Calculated (2)	User Mode Selection 1 (79)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
RD_REAL_PARAM	Relative Density Parameter	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
RD_REAL_OVRD	Override Relative Density	DOUBLE	≥ 0.0001	0.573538	RD (306-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Fluid Prop								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
RD_REAL_CALC	Calculated Relative Density	DOUBLE		0.573538	RD (306-0)	R/O: Operator; Auditor	2.0.0.XXX	Legal
RD_REAL_SEL	Selected Relative Density	DOUBLE		0.573538	RD (306-0)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
RD_REAL_FAULT	Relative Density Fault Value	DOUBLE	≥ 0.0001	0.6	RD (306-0)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
RD_REAL_FAULT_M ODE	Relative Density Fault Mode 0 - Live 1 - Fault 2 - Last Good	ENUM16	0→2	Live (0)	Fault Selection (32)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ZB_UMODE	Base Compressibility Mode 1 - Override 2 - Calculated	ENUM16	1→2	Calculated (2)	User Mode Selection 2 (97)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ZB_OVRD	Override Base Compressibility	DOUBLE	≥ 0.0001	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ZB_CALC	Calculated Base Compressibility	DOUBLE		0		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
ZB_SEL	Selected Base Compressibility	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
ZS_UMODE	Standard Compressibility Mode 1 - Override 2 - Calculated	ENUM16	1→2	Calculated (2)	User Mode Selection 2 (97)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ZS_OVRD	Override Standard Compressibility	DOUBLE	≥ 0.0001	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ZS_CALC	Calculated Standard Compressibility	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
ZS_SEL	Selected Standard Compressibility	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
ZF_UMODE	Flowing Compressibility Mode 1 - Override 2 - Calculated	ENUM16	1→2	Calculated (2)	User Mode Selection 2 (97)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ZF_OVRD	Override Flowing Compressibility	DOUBLE	≥ 0.0001	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ZF_CALC	Calculated Flowing Compressibility	DOUBLE		0		<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
ZF_SEL	Selected Flowing Compressibility	DOUBLE		0		Meas. Tech; Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
ZFPV_SEL	Supercompressibility	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
DENSB_UMODE	Base Density Mode 0 - Measured 1 - Override 2 - Calculated	ENUM16	0→2	Calculated (2)	User Mode Selection 1 (79)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DENSB_PARAM	Base Density Parameter	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
DENSB_OVRD	Override Base Density	DOUBLE	≥ 0	0.0001	lb/ft <sup>3</sup> (4-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DENSB_CALC	Calculated Base Density	DOUBLE		0	lb/ft <sup>3</sup> (4-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
DENSB_SEL	Selected Base Density	DOUBLE		0	lb/ft <sup>3</sup> (4-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
DENSB_UMODE	Flowing Density Mode 0 - Measured	ENUM16	0→2	Calculated (2)	User Mode Selection 1 (79)	<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	1 - Override 2 - Calculated					Meas. Tech <b>R/O:</b> Operator; Auditor		
DENSF_PARAM	Flowing Density Parameter	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
DENSF_OVRD	Override Flowing Density	DOUBLE	≥ 0	0.0001	lb/ft <sup>3</sup> (4-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DENSF_CALC	Calculated Flowing Density	DOUBLE		0	lb/ft <sup>3</sup> (4-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
DENSF_SEL	Selected Flowing Density	DOUBLE		0	lb/ft <sup>3</sup> (4-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
MOLAR_MASS	Molar Mass	DOUBLE		0	lb/lb-mol (25-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
DYN_VISC_OVRD	Override Dynamic Viscosity	DOUBLE	≥ 0.000001	0.0000069	lb/ft-s (6-1)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
JT_OVRD	Override Joule-Thomson	DOUBLE	≥ 0	0	°F/psi (22-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Fluid Prop								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
JT_CALC	Calculated Joule-Thomson	DOUBLE		0	°F/psi (22-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
JT_SEL	Selected Joule-Thomson	DOUBLE		0	°F/psi (22-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
JT_UMODE	Joule-Thomson Mode 1 - Override 2 - Calculated	ENUM16	1→2	Calculated (2)	User Mode Selection 2 (97)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ISEINTR_OVRD	Override Isentropic Exponent	DOUBLE	≥ 0.0001	1.3		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ISEINTR_CALC	Calculated Isentropic Exponent	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
ISEINTR_SEL	Selected Isentropic Exponent	DOUBLE		1.3		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
ISEINTR_UMODE	Isentropic Exponent User Mode 1 - Override 2 - Calculated	ENUM16	1→2	Override (1)	User Mode Selection 2 (97)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
WOBBE_INDEX_CALC	Calculated Wobbe Index	DOUBLE		0	Btu/ft <sup>3</sup> (5-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SOS_CALC	Calculated Speed Of Sound	DOUBLE		0	ft/s (187-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
PCALC_ALM	Property Calculation Alarm Code 0 - Normal 1 - Invalid Input(s) 2 - Invalid Configuration 3 - Calculation Error 4 - Boundary Error 5-9 - Undefined 9 - Pressure 10 - Temperature 11 - Flowing Density/Compressibility 12 - Base Density/Compressibility 13 - Relative Density 14 - Heating Value/Enthalpy 15 - Composition 16 - Water Content 17 - Atmospheric Press/Gravitational Accel 18 - Viscosity 19 - Isentropic Exponent 20 - Speed of Sound	BIN32			Property Calculation Alarm (207)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
ZB_HV_SEL	Base Compressibility for Heating Value	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
HV_COMP_SEL	Selected Heating Value	DOUBLE		0	Btu/ft <sup>3</sup> (5-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal



Fluid Prop								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DENS_RANGE	Density Inputs Range	ENUM16		0	Density Inputs Range (354)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX Removed: 2.7.0.XXX	Legal
TOTAL_INUSE	Total In Use	DOUBLE	0→100	0	Ration (18)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.12.0.XXX	Legal
ISENTR_PARAM	Isentropic Exponent Parameter	PRMREF		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.14.0.XX	<ul style="list-style-type: none"> <li>• Log Changes</li> <li>• Legal</li> </ul>
DYN_VISC_SEL	Selected Dynamic Viscosity	DOUBLE		0.0000069		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.14.0.XX	<ul style="list-style-type: none"> <li>• Log Changes</li> <li>• Legal</li> </ul>
DYN_VISC_UMODE	Dynamic Viscosity Mode	ENUM16	0→1	1	User Mode Selection 5 (285)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.14.0.XX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
VYD_VISC_PARAM	Dynamic Viscosity Parameter	PRMREF		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.14.0.XX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

## 5.27 GC Config Parameters

**Description:** The Gas Chromatograph (CG) Config object provides the parameters for configuring gas chromatographs.

**Number of Instances:** 6 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-26: GC Config Parameters**

GC Config								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "GC Config_X" (where X is instance number between 1 and 6)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20				<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COMM_PORT_OBJ	Comm Port to GC	ObjectRef	Comm	Undefined		<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

GC Config								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
						Meas. Tech <b>R/O:</b> Operator; Auditor		
GC_MODBUS_ADDR	GC Device Address	UINT8	1→247	Instance: 1-1 2-2 3-3 4-4 5-5 6-6		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
GC_SERVER_IP_ADDR	GC Server IP Address	ByteArray4		Undefined	IPv4 Address (41)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
GC_SERVER_PORT_NUM	GC Server Port Number	UINT16		502		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
POLL_INTERVAL	Polling Interval	UINT16	10→65535	60	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LAST_POLL_TIME	Last Poll Time	Time		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
GC_POLL_ALM	GC Polling Alarm 0 - Normal 1 - Poll Failed 2 - Comp Code Match Error 3 - Poll Disabled 4 - Auto-config Fail	BIN32		Normal	GC Poll Alarm (237)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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GC Config								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
COMM_TIMEOUT	Modbus polling timeout	FLOAT	1→300	3	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COMM_RETRIES	Number of Modbus polling retries	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SEL_MAPTABLE_NUM	Mappable number	UINT8	1→12	Instance: 1-1 2-2 3-3 4-4 5-5 6-6		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
GC_TYPE	Chromat Type 0 - American 1 - European	ENUM16	0→1	American (0)	GC Type (203)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
AUTO_CONFIG	Auto Configure Command 0 - No Action 1 - Auto Configure	ENUM16	0→1	No Action (0)	Auto Configure (193)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
POLL_MODE	Enable communication to the GC. 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ALM_1_CHK	Alarm 1 Check 0 - Normal 1 - A/D 0 Low	BIN16		Normal	GC US Alarm 1 (204)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

GC Config								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	2 - A/D 0 High 3 - A/D 1 Low 4 - A/D 1 High 5 - A/D 2 Low 6 - A/D 2 High 7 - A/D Cal Low 8 - A/D Cal High 9 - D/A 1 Low 10 - D/A 1 High 11 - D/A 2 Low 12 - D/A 2 High 13 - D/A 3 Low 14 - D/A 3 High 15 - Analyzer Failure 16 - Checksum Failure							R/O: Operator; Auditor
ALM_2_CHK	Alarm 2 Check 0 - Normal 1 - Power Failure 2 - RF % Deviation 3 - Preamp Failure 4 - Adjust Preamp	BIN16		Normal	GC US Alarm 2 (205)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CX_SPLIT_TYPE	Cx+ Split Type 0 - Hexane Plus Split 1 - Heptane Plus Split 2 - Octane Plus Split 3 - Nonane Plus Split	ENUM16	0→3	Hexane Plus Split (0)	Cx Split Type (191)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
AUTO_SPLIT_OPT	Split based on Code 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C1_CODE	Methane Component Code	UINT16	0→255	0		R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
C2_CODE	Ethane Component Code	UINT16	0→255	1		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C3_CODE	Propane Component Code	UINT16	0→255	2		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
IC4_CODE	i-Butane Component Code	UINT16	0→255	3		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NC4_CODE	n-Butane Component Code	UINT16	0→255	4		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NEOC5_CODE	Neopentane Component Code	UINT16	0→255	7		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
IC5_CODE	i-Pentane Component Code	UINT16	0→255	5		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NC5_CODE	n-Pentane Component Code	UINT16	0→255	6		R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

GC Config								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
C6_CODE	n-Hexane Component Code	UINT16	0→255	39		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CX+_CODE	Composite Component Code	UINT16	0→255	10		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
N2_CODE	Nitrogen Component Code	UINT16	0→255	14		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CO2_CODE	Carbon Dioxide Component Code	UINT16	0→255	17		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2S_CODE	Hydrogen Sulfide Component Code	UINT16	0→255	40		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2O_CODE	Water Component Code	UINT16	0→255	44		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
HE_CODE	Helium Component Code	UINT16	0→255	13		R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
O2_CODE	Oxygen Component Code	UINT16	0→255	16		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
CO_CODE	Carbon Monoxide Component Code	UINT16	0→255	15		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
H2_CODE	Hydrogen Component Code	UINT16	0→255	12		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
C7_CODE	n-Heptane Component Code	UINT16	0→255	45		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
C8_CODE	n-Octane Component Code	UINT16	0→255	20		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
C9_CODE	n-Nonane Component Code	UINT16	0→255	19		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
C10_CODE	n-Decane Component Code	UINT16	0→255	25		R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	▪ Log Changes ▪ Legal



GC Config								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
C11_CODE	C11 component Code	UINT16	0→255	255		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
C12_CODE	C12 component Code	UINT16	0→255	255		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
AR_CODE	Argon Component Code	UINT16	0→255	46		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
BENZENE_CODE	Benzene Component Code	UINT16	0→255	255		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
TOLUENE_CODE	Toluene Component Code	UINT16	0→255	255		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
C6_SPLIT	Heavy Gas % n-Hexane	FLOAT	0→100	60	%(18-0)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
C7_SPLIT	Heavy Gas % n-Heptane	FLOAT	0→100	30	%(18-0)	R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	▪ Log Changes ▪ Legal

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GC Config								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
C8_SPLIT	Heavy Gas % n-Octane	FLOAT	0→100	10	% (18-0)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C9_SPLIT	Heavy Gas % n-Nonane	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C10_SPLIT	Heavy Gas % n-Decane	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C11_SPLIT	Heavy Gas % C11	FLOAT	0→ 100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C12_SPLIT	Heavy Gas % C12	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

## 5.28 GC Data Parameters

**Description:** The GC Data object provides the parameters for viewing data and configuring validation limits for a specific gas chromatograph stream.

**Number of Instances:** 24 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-27: GC Data Parameters**

GC Data								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: 1-GC Data_1-1 2-GC Data_1-2 3-GC Data_1-3 4-GC Data_1-4 5-GC Data_2-1 6-GC Data_2-2 7-GC Data_2-3 8 GC Data_2-4 Instances 9-24 follow the same pattern		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	

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GC Data								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	2 - Failure 3 - Override 4 - Inactive					Meas. Tech Operator; Auditor		
DESC	Description	UC20		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
GC_OBJ	GC Configuration Object	ObjectRef	GC Config	Instance: 1-4=GC Config_1 5-8=GC Config_2 9-12=GC Config_3 13-16=GC Config_4 17-20=GC Config_5 21-24=GC Config_6		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
STREAM_NUMBER	Stream Number	UINT16	0→ 65535	Instance: 1-1 2-2 3-3 4-4  Instances 5 through 24 repeat the same pattern as above for every four instances (that is, 5,6,7,8; 9,10,11,12, and so on)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DRY_SUPERIOR_HV	Dry Superior Heating Value	FLOAT		0	Btu/ft <sup>3</sup> (5-0)	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

GC Data								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DRY_SUPERIOR_HV_HI	High Dry Superior Heating Value	FLOAT		1500	Btu/ft <sup>3</sup> (5-0)	Meas. Tech Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DRY_SUPERIOR_HV_LO	Low Dry Superior Heating Value	FLOAT		0	Btu/ft <sup>3</sup> (5-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SAT_SUPERIOR_HV	Saturated Superior Heating Value	FLOAT		0	Btu/ft <sup>3</sup> (5-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SAT_SUPERIOR_HV_HI	High Saturated Superior Heating Value	FLOAT		1500	Btu/ft <sup>3</sup> (5-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SAT_SUPERIOR_HV_LO	Low Saturated Superior Heating Value	FLOAT		0	Btu/ft <sup>3</sup> (5-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DRY_INFERIOR_HV	Dry Inferior Heating Value	FLOAT		0	Btu/ft <sup>3</sup> (5-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DRY_INFERIOR_HV_HI	High Dry Inferior Heating Value	FLOAT		1500	Btu/ft <sup>3</sup> (5-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DRY_INFERIOR_HV_LO	Low Dry Inferior Heating Value	FLOAT		0	Btu/ft <sup>3</sup> (5-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SAT_INFERIOR_HV	Saturated Inferior Heating Value	FLOAT		0	Btu/ft <sup>3</sup> (5-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SAT_INFERIOR_HV_HI	High Saturated Inferior Heating Value	FLOAT		1500	Btu/ft <sup>3</sup> (5-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SAT_INFERIOR_HV_LO	Low Saturated Inferior Heating Value	FLOAT		0	Btu/ft <sup>3</sup> (5-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
RD	Relative Density	FLOAT		0	RD (306-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
RD_HI	High Relative Density	FLOAT		0.91	RD (306-0)	<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

GC Data								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
						Meas. Tech <b>R/O:</b> Operator; Auditor		
RD_LO	Low Relative Density	FLOAT		0	RD (306-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
WOBBE_INDEX	Wobbe Index	FLOAT		0	Btu/ft <sup>3</sup> (5-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
UNNORMAL_SUM	Unnormalized Sum	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
COMP_SUM	Normalized Component Sum	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
ALARM_1	Alarm 1 Code 0 - Normal 1 - A/D 0 Low 2 - A/D 0 High 3 - A/D 1 Low 4 - A/D 1 High 5 - A/D 2 Low 6 - A/D 2 High 7 - A/D Cal Low 8 - A/D Cal High	BIN16		Normal	GC US Alarm 1 (204)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	9 - D/A 1 Low 10 - D/A 1 High 11 - D/A 2 Low 12 - D/A 2 High 13 - D/A 3 Low 14 - D/A 3 High 15 - Analyzer Failure 16 - Checksum Failure							
ALARM_2	Alarm 2 Code 0 - Normal 1 - Power Failure 2 - RF % Deviation 3 - Preamp Failure 4 - Adjust Preamp	BIN16		Normal	GC US Alarm 2 (205)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
VALIDATION_ALM	Composition Validation Alarm 0 - Normal 1 - Component Limit Alarm 2 - Heating Value Limit Alarm 3 - Relative Density Limit Alarm 4 - Un-normalized Mole Sum Alarm 5 - Total Mole Sum Alarm 6 - Composition Deviation Alarm 7 - Alarm 1 8 - Alarm 2	BIN32		Normal	GC Validation Alarm (192)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
UNNORM_DEV_LIM	Unnormalized Deviation Limit	FLOAT	0→5	2	%(18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>



GC Data								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
COMP_SUM_DEV_LIM	Component Sum Deviation Limit	FLOAT	0→5	2	% (18-0)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
COMP_DEV_LIM	Component Deviation Alarm Limit % of %	FLOAT	≥ 0	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C1_HI_LIM	Methane High Limit	FLOAT	0→100	100	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C1_LO_LIM	Methane Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
N2_HI_LIM	Nitrogen High Limit	FLOAT	0→100	50	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
N2_LO_LIM	Nitrogen Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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GC Data								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CO2_HI_LIM	Carbon Dioxide High Limit	FLOAT	0→100	80	% (18-0)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CO2_LO_LIM	Carbon Dioxide Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C2_HI_LIM	Ethane High Limit	FLOAT	0→100	25	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C2_LO_LIM	Ethane Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C3_HI_LIM	Propane High Limit	FLOAT	0→100	6	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C3_LO_LIM	Propane Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

GC Data								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
H2O_HI_LIM	Water High Limit	FLOAT	0→100	1.4	% (18-0)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2O_LO_LIM	Water Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2S_HI_LIM	Hydrogen Sulfide High Limit	FLOAT	0→100	4	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2S_LO_LIM	Hydrogen Sulfide Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2_HI_LIM	Hydrogen High Limit	FLOAT	0→100	100	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2_LO_LIM	Hydrogen Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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CO_HI_LIM	Carbon Monoxide High Limit	FLOAT	0→100	10	% (18-0)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CO_LO_LIM	Carbon Monoxide Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
O2_HI_LIM	Oxygen High Limit	FLOAT	0→100	1	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
O2_LO_LIM	Oxygen Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
IC4_HI_LIM	i-Butane High Limit	FLOAT	0→100	1.5	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
IC4_LO_LIM	i-Butane Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

GC Data								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
NC4_HI_LIM	n-Butane High Limit	FLOAT	0→100	6	% (18-0)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NC4_LO_LIM	n-Butane Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
IC5_HI_LIM	i-Pentane High Limit	FLOAT	0→100	2	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
IC5_LO_LIM	i-Pentane Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NC5_HI_LIM	n-Pentane High Limit	FLOAT	0→100	2	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NC5_LO_LIM	n-Pentane Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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C6_HI_LIM	n-Hexane High Limit	FLOAT	0→100	2	% (18-0)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C6_LO_LIM	n-Hexane Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C7_HI_LIM	n-Heptane High Limit	FLOAT	0→100	0.2	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C7_LO_LIM	n-Heptane Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C8_HI_LIM	n-Octane High Limit	FLOAT	0→100	0.2	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C8_LO_LIM	n-Octane Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

GC Data								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
C9_HI_LIM	n-Nonane High Limit	FLOAT	0→100	0.2	% (18-0)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C9_LO_LIM	n-Nonane Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C10_HI_LIM	n-Decane High Limit	FLOAT	0→100	0.2	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C10_LO_LIM	n-Decane Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
HE_HI_LIM	Helium High Limit	FLOAT	0→100	5	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
HE_LO_LIM	Helium Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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GC Data								
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AR_HI_LIM	Argon High Limit	FLOAT	0→100	3	% (18-0)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
AR_LO_LIM	Argon Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NEOC5_HI_LIM	Neopentane High Limit	FLOAT	0→100	2	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NEOC5_LO_LIM	Neopentane Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
BENZENE_HI_LIM	Benzene High Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
BENZENE_LO_LIM	Benzene Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>



GC Data								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TOLUENE_HI_LIM	Toluene High Limit	FLOAT	0→100	0	% (18-0)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
TOLUENE_LO_LIM	Toluene Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C11_HI_LIM	C11 High Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C11_LO_LIM	C11 Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C12_HI_LIM	C12 High Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
C12_LO_LIM	C12 Low Limit	FLOAT	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
C1_VAL	Methane	FLOAT		0	% (18-0)	R/O: Operator; Auditor	2.0.0.XXX	Legal
N2_VAL	Nitrogen	FLOAT		0	% (18-0)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
CO2_VAL	Carbon Dioxide	FLOAT		0	% (18-0)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
C2_VAL	Ethane	FLOAT		0	% (18-0)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
C3_VAL	Propane	FLOAT		0	% (18-0)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
H2O_VAL	Water	FLOAT		0	% (18-0)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
H2S_VAL	Hydrogen Sulfide	FLOAT		0	% (18-0)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

GC Data								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
H2_VAL	Hydrogen	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
CO_VAL	Carbon Monoxide	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
O2_VAL	Oxygen	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
IC4_VAL	i-Butane	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
NC4_VAL	n-Butane	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
IC5_VAL	i-Pentane	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
NC5_VAL	n-Pentane	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
C6_VAL	n-Hexane	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
C7_VAL	n-Heptane	FLOAT		0	% (18-0)	Meas. Tech; Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
C8_VAL	n-Octane	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
C9_VAL	n-Nonane	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
C10_VAL	n-Decane	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
HE_VAL	Helium	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
AR_VAL	Argon	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
NEOC5_VAL	Neopentane	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

GC Data								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
BENZENE_VAL	Benzene	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
TOLUENE_VAL	Toluene	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
C11_VAL	C11	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
C12_VAL	C12	FLOAT		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
COMP_UPDATE	Components Updated by Chromatograph 0 - None 1 - Methane 2 - Nitrogen 3 - Carbon Dioxide 4 - Ethane 5 - Propane 6 - Water 7 - Hydrogen Sulfide 8 - Hydrogen 9 - Carbon Monoxide 10 - Oxygen 11 - i-Butane	BIN32		None	GC Component Update (189)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

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GC Data								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	12 - n-Butane							
	13 - i-Pentane							
	14 - n-Pentane							
	15 - Hexane							
	16 - Heptane							
	17 - Octane							
	18 - Nonane							
	19 - Decane							
	20 - Helium							
	21 - Argon							
	22 - neo-Pentane							
	23 - Benzene							
	24 - Toluene							
	25 - Undecane (C11)							
	26 - Dodecane (C12)							

## 5.29 GC Stream Parameters

**Description:** The GC Stream object provides the parameters for viewing the data directly from the most recent gas chromatograph analysis.

**Number of Instances:** 6 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-28: GC Stream Parameters**

GC Stream									
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes	
OBJ_NAME	Tag	UC20		Instance: "CG Stream_X" (where X is instance number between 1 and 6)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>	
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes	
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX		
DESC	Description	UC20		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>	

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GC Stream								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
GC_Obj	GC Configuration Object	ObjectRef	GC Config	Instance: "CG Config_X" (where X is instance number between 1 and 6)		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CYCLE_STREAM_NUM	Current Stream Number	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
DRY_SUPERIOR_HV	Dry Superior Heating Value	FLOAT		0	Btu/ft <sup>3</sup> (5-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
DRY_INFERIOR_HV	Dry Inferior Heating Value	FLOAT		0	Btu/ft <sup>3</sup> (5-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
SAT_SUPERIOR_HV	Saturated Superior Heating Value	FLOAT		0	Btu/ft <sup>3</sup> (5-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
SAT_INFERIOR_HV	Saturated Inferior Heating Value	FLOAT		0	Btu/ft <sup>3</sup> (5-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
RD	Relative Density	FLOAT		0	RD (306-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal



GC Stream								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
WOBBE_INDEX	Wobbe Index	FLOAT		0	Btu/ft <sup>3</sup> (5-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
UNNORMAL_SUM	Unnormalized Sum	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMPRESSIBILITY	Compressibility	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
SAMPLE_MINUTE	Sample Minute of Last Analysis	UINT16	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
NEW_ANALYSIS_FLAG	New Analysis Flag	UINT16	0→1	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
STREAM_LAST_ANALYZED	Stream Last Analyzed	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal

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GC Stream								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
ALARM_1	Alarm 1 Code 0 - Normal 1 - A/D 0 Low 2 - A/D 0 High 3 - A/D 1 Low 4 - A/D 1 High 5 - A/D 2 Low 6 - A/D 2 High 7 - A/D Cal Low 8 - A/D Cal High 9 - D/A 1 Low 10 - D/A 1 High 11 - D/A 2 Low 12 - D/A 2 High 13 - D/A 3 Low 14 - D/A 3 High 15 - Analyzer Failure 16 - Checksum Failure	BIN16		Normal	GC US Alarm 1 (204)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
ALARM_2	Alarm 2 Code 0 - Normal 1 - Power Failure 2 - RF % Deviation 3 - Preamp Failure 4 - Adjust Preamp	BIN16		Normal	GC US Alarm 2 (205)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
CAL_FLAG	Calibration Flag	UINT16	0→255	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_1_CODE	Component 1 Code	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal

GC Stream								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
COMP_2_CODE	Component 2 Code	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_3_CODE	Component 3 Code	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_4_CODE	Component 4 Code	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_5_CODE	Component 5 Code	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_6_CODE	Component 6 Code	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_7_CODE	Component 7 Code	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_8_CODE	Component 8 Code	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal

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GC Stream								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
COMP_9_CODE	Component 9 Code	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_10_CODE	Component 10 Code	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_11_CODE	Component 11 Code	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_12_CODE	Component 12 Code	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_13_CODE	Component 13 Code	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_14_CODE	Component 14 Code	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_15_CODE	Component 15 Code	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal

GC Stream								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
COMP_16_CODE	Component 16 Code	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_1_RAW	Component 1 Raw	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_2_RAW	Component 2 Raw	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_3_RAW	Component 3 Raw	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_4_RAW	Component 4 Raw	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_5_RAW	Component 5 Raw	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_6_RAW	Component 6 Raw	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal

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GC Stream								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
COMP_7_RAW	Component 7 Raw	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_8_RAW	Component 8 Raw	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_9_RAW	Component 9 Raw	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_10_RAW	Component 10 Raw	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_11_RAW	Component 11 Raw	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_12_RAW	Component 12 Raw	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_13_RAW	Component 13 Raw	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal

GC Stream								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
COMP_14_RAW	Component 14 Raw	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_15_RAW	Component 15 Raw	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
COMP_16_RAW	Component 16 Raw	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal

## 5.30 HART Parameters

**Description:** The HART object provides the parameters for configuring HART inputs.

**Number of Instances:** 28 instances may exist (4 for each HART module).

**Storage Location:** Saved to internal configuration memory.

**Table 5-29: HART Parameters**

HART								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		HART_X-Y		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0 → 5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	Log Changes
OBJ_STATUS	Status: 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	
HART_POLL_MODE	Variables to Poll 0 = Skip 1 = PV only 2 = All Process 3 = All Dynamic	ENUM16	0->3	0	Hart Poll Mode (316)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
POLL_ADDRESS	Polling Address	UINT8		0		<b>R/O:</b> Admin; Engineer;	2.7.4.XXX	Legal



HART								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
ACTUAL_SCAN_TIME	Actual Scan Time	FLOAT		0	Seconds (310-0)	Meas. Tech Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
RESP_STATUS	Response Status	UINT16		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
ACTIVE_ALARMS	Active Alarms	UINT8		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
PV_FAULT	PV Fail Value	FLOAT		0	HART Units (344)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
PV_ACTUAL_MODE	PV Actual Mode 0 - Live 1 - Auto 2 - Auto Read 3 - Override 4 - Calibration 5 - Fault 6 - Last Good 7 - Last Hour Average 8 -Ramp to Fault Value 9 - Ramp to Last Hour Avg	ENUM16		0	Actual Mode (125)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
PV_LIVE	PV Live Val	FLOAT		0	HART Units (344)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal

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HART								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
PV_OVRD	PV Ovr Val	FLOAT		0	HART Units (344)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
PV_LAST_GOOD	PV Lst Good	FLOAT		0	HART Units (344)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
PV_SELECTED	PV Sel Val	FLOAT		0	HART Units (344)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
PV_USER_MODE	PV Opr Mode 0 = Live 1 = Override	ENUM16	0->1	0	User Selection (31)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
PV_FAULT_MODE	PV Flt Mode 0 = Fault 1 = Last Good	ENUM16	0->1	0	HART Fault Selection (317)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SV_FAULT	SV Fail Value	FLOAT		0	HART Units (344)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SV_ACTUAL_MODE	SV Actual Mode 0 - Live 1 - Auto 2 - Auto Read 3 - Override 4 - Calibration 5 - Fault	ENUM16		0	Actual Mode (125)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal

HART								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	6 - Last Good 7 - Last Hour Average 8 -Ramp to Fault Value 9 - Ramp to Last Hour Avg							
SV_LIVE	SV Live Val	FLOAT		0	HART Units (344)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
SV_OVRD	SV Ovrld Val	FLOAT		0	HART Units (344)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SV_LAST_GOOD	SV Lst Good	FLOAT		0	HART Units (344)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
SV_SELECTED	SV Sel Val	FLOAT		0	HART Units (344)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
SV_USER_MODE	SV Opr Mode 0 = Live 1 = Override	ENUM16	0->1	0	User Selection (31)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SV_FAULT_MODE	SV Flt Mode 0 = Fault 1 = Last Good	ENUM16	0->1	0	HART Fault Selection (317)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
TV_FAULT	TV Fail Value	FLOAT		0	HART Units (344)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b>	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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HART								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TV_ACTUAL_MODE	TV Actual Mode 0 - Live 1 - Auto 2 - Auto Read 3 - Override 4 - Calibration 5 - Fault 6 - Last Good 7 - Last Hour Average 8 -Ramp to Fault Value 9 - Ramp to Last Hour Avg	ENUM16		0	Actual Mode (125)	Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
TV_LIVE	TV Live Val	FLOAT		0	HART Units (344)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
TV_OVRD	TV OvrD Val	FLOAT		0	HART Units (344)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
TV_LAST_GOOD	TV Lst Good	FLOAT		0	HART Units (344)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
TV_SELECTED	TV Sel Val	FLOAT		0	HART Units (344)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
TV_USER_MODE	TV Opr Mode 0 = Live 1 = Override	ENUM16	0->1	0	User Selection (31)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

HART								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TV_FAULT_MODE	TV Flt Mode 0 = Fault 1 = Last Good	ENUM16	0->1	0	HART Fault Selection (317)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
QV_FAULT	QV Fail Value	FLOAT		0	HART Units (344)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
QV_ACTUAL_MODE	QV Actual Mode 0 - Live 1 - Auto 2 - Auto Read 3 - Override 4 - Calibration 5 - Fault 6 - Last Good 7 - Last Hour Average 8 -Ramp to Fault Value 9 - Ramp to Last Hour Avg	ENUM16		0	Actual Mode (125)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
QV_LIVE	QV Live Val	FLOAT		0	HART Units (344)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
QV_OVRD	QV Ovrld Val	FLOAT		0	HART Units (344)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
QV_LAST_GOOD	QV Lst Good	FLOAT		0	HART Units (344)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal

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HART								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
QV_SELECTED	QV Sel Val	FLOAT		0	HART Units (344)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
QV_USER_MODE	QV Opr Mode 0 = Live 1 = Override	ENUM16	0->1	0	User Selection (31)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
QV_FAULT_MODE	QV Flt Mode 0 = Fault 1 = Last Good	ENUM16	0->1	0	HART Fault Selection (317)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SLOT_0_ASSIGN	Slot 0 Assign	UINT8		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	Log Changes
SLOT_0_VALUE	Slot 0 Value	FLOAT		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
SLOT_1_ASSIGN	Slot 1 Assign	UINT8		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	Log Changes
SLOT_1_VALUE	Slot 1 Value	FLOAT		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	
SLOT_2_ASSIGN	Slot 2 Assign	UINT8		0		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.7.4.XXX	Log Changes

HART								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SLOT_2_VALUE	Slot 2 Value	FLOAT		0		R/O: Operator; Auditor	2.7.4.XXX	
SLOT_3_ASSIGN	Slot 3 Assign	UINT8		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Log Changes
SLOT_3_VALUE	Slot 3 Value	FLOAT		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	
DEV_MESSAGE	Message	UC40				R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.7.4.XXX	
DESC	Description	UC20				R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
EXP_DEV_TYPE	Device ID	UINT16		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
HW_SER_NUM	Sensor Serial Number	UINT32		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
DEV_ID	ID Number	UINT32		0		R/O: Admin; Engineer;	2.7.4.XXX	Legal

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HART								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TAG	Device Tag	UC10				Meas. Tech Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DEVICE_STATUS	Device Status	BIN32		0	Device Status(342)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
PV_DAMPING_VALU E	PV Damping Value	FLOAT		0	S(17-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
PERCENT_RANGE	% of Range	FLOAT			%(18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
PV_USL	PV Upper Sensor Limit	FLOAT				<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
PV_LSL	PV Lower Sensor Limit	FLOAT				<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
LV_URL	PV Upper Range Limit	FLOAT				<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
PV_LRL	PV Lower Range Limit	FLOAT				<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal



HART								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
PV_MIN_SPAN	PV Minimum Span	FLOAT				R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
PV_ALM_OBJ	PV Alarm Reference	OBJREF				R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal

## 5.31 HARTChan Parameters

**Description:** The HARTChan object provides the parameters for configuring the individual HART Channels.

**Number of Instances:** 7 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-30: HARTChan Parameters**

HARTChan								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: HART Channel_X-Y		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	
MOD_LOC	Module Location	UINT8		Varies by Instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal
CHANNEL	Channel	UINT8		Varies by Instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	Legal

HARTChan								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
HART_MODE	HART Comm Mode 0 = Disabled 1 = Point to Point 2 = MultiDrop	ENUM16	0->2	0	HART Comm Mode (312)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
HART_MASTER	HART Master Type 0 = Primary 1 = Secondary	ENUM16	0→1	0	HART Master Type (313)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NUM_DEVICES	Number of Devices	UINT8	1->5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
HART_COM_STAT	HART COMM Status 0 = Not Scanning 1 = Scanning 2 = Dual Master 3 = Pass thru 4 = Burst Mode	ENUM16		0	HART Scan Status (314)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Legal</li> </ul>
PASS_THRU	Pass Through Mode 0 = Disable 1 = Strip 2 = Full	ENUM16	0->2	0	HART Passthru Mode (315)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
INTERNAL_RESIST	Internal Resister 0 = Disable 1 = Enable	ENUM16	0->1	1	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.4.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

## 5.32 HARTSlave Parameters

**Description:** The HARTSlave object provides the parameters for configuring the HART slaves.

**Number of Instances:** 7 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-31: HARTSlave Parameters**

HARTSlave								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		HART Slave		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		Log Changes
OBJ_AREA	Area Assignment	UINT8	0 -> 5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor		
HART_TCP_ENABLE	Enable TCP for HART	ENUM16	0 -> 1	Instance: "HARTSlave_X" (where X is instance number between 1 and 7)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		Log Changes

HARTSlave								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TCPIP Port	TCP/IP Port	UINT16		5094		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		Log Changes

## 5.33 Hist Parameters

**Description:** The Hist object provides the parameters for configuring the individual history points in each group.

**Number of Instances:** 1380 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-32: Hist Parameters**

Hist								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "Hist_X" (where X is instance number between 1 and 21600)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	

Hist								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	3 - Override 4 - Inactive							
DESC	Description	UC20		Instance: "Hist_X" (where X is instance number between 1 and 21600)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
HIST_GRP_OBJ	History Group	ObjectRef	Hist Grp	Instance: "Hist Grp_X" (where X is instance number between 1 and 27)		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
HIST_PARAM	Parameter to Archive	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
HIST_TYPE	Archive Type 0 - Average 1 - Total / Difference 2 - Snapshot 3 - Minimum 4 - Maximum 5 - Integration	ENUM16	0→5	Average (0)	History Type (43)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

## 5.34 HistConfig Parameters

**Description:** The HistConfig object provides the parameters for moving history points between the 25 standard periodic groups (general history, station 1-24 history).

**Number of Instances:** 1 instance may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-33: HistConfig Parameters**

HistConfig								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Hist Config		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Change
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20		History Config		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>



HistConfig								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
NUM_AVAIL_USER_PTS	Total Num of Available User Points	UINT16	0→30	30		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
NUM_AVAIL_STD_PTS	Total Num of Available Standard Points	UINT16	0→800	610		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP1_CUR_NUM_PTS	User Periodic1 Current Num of Pts	UINT16	0→10	10		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
GRP2_CUR_NUM_PTS	User Periodic2 Current Num of Pts	UINT16	0→20	20		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
GRP3_CUR_NUM_PTS	Standard General Current Num of Pts	UINT16	0→800	10		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP3_REQ_NUM_PTS	Standard General Requested Num of Pts	UINT16	0→800	10		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
GRP4_CUR_NUM_PTS	Standard Station1 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP4_REQ_NUM_PTS	Standard Station1 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>

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HistConfig								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
GRP5_CUR_NUM_PTS	Standard Station2 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP5_REQ_NUM_PTS	Standard Station2 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP6_CUR_NUM_PTS	Standard Station3 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP6_REQ_NUM_PTS	Standard Station3 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP7_CUR_NUM_PTS	Standard Station4 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP7_REQ_NUM_PTS	Standard Station4 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP8_CUR_NUM_PTS	Standard Station5 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP8_REQ_NUM_PTS	Standard Station5 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>

HistConfig								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
GRP9_CUR_NUM_PTS	Standard Station6 Current Num of Pts	UINT16	0–800	25		R/O: Operator; Auditor	2.0.0.XXX	Legal
GRP9_REQ_NUM_PTS	Standard Station6 Requested Num of Pts	UINT16	0–800	25		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP10_CUR_NUM_PTS	Standard Station7 Current Num of Pts	UINT16	0–800	25		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP10_REQ_NUM_PTS	Standard Station7 Requested Num of Pts	UINT16	0–800	25		R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP11_CUR_NUM_PTS	Standard Station8 Current Num of Pts	UINT16	0–800	25		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP11_REQ_NUM_PTS	Standard Station8 Requested Num of Pts	UINT16	0–800	25		R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP12_CUR_NUM_PTS	Standard Station9 Current Num of Pts	UINT16	0–800	25		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP12_REQ_NUM_PTS	Standard Station9 Requested Num of Pts	UINT16	0–800	25		R/W: Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
GRP13_CUR_NUM_PTS	Standard Station10 Current Num of Pts	UINT16	0→800	25		Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
GRP13_REQ_NUM_PTS	Standard Station10 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP14_CUR_NUM_PTS	Standard Station11 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP14_REQ_NUM_PTS	Standard Station11 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP15_CUR_NUM_PTS	Standard Station12 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP15_REQ_NUM_PTS	Standard Station12 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP16_CUR_NUM_PTS	Standard Station13 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

HistConfig								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
GRP16_REQ_NUM_PTS	Standard Station13 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP17_CUR_NUM_PTS	Standard Station14 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP17_REQ_NUM_PTS	Standard Station14 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP18_CUR_NUM_PTS	Standard Station15 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP18_REQ_NUM_PTS	Standard Station15 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP19_CUR_NUM_PTS	Standard Station16 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP19_REQ_NUM_PTS	Standard Station16 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP20_CUR_NUM_PTS	Standard Station17 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
GRP20_REQ_NUM_PTS	Standard Station17 Requested Num of Pts	UINT16	0→800	25		Meas. Tech; Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP21_CUR_NUM_PTS	Standard Station18 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP21_REQ_NUM_PTS	Standard Station18 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP22_CUR_NUM_PTS	Standard Station19 Current Num of Pts	UINT16	0 -> 800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP22_REQ_NUM_PTS	Standard Station19 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP23_CUR_NUM_PTS	Standard Station20 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
GRP23_REQ_NUM_PTS	Standard Station20 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>

HistConfig								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
GRP24_CUR_NUM_PTS	Standard Station21 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP24_REQ_NUM_PTS	Standard Station21 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP25_CUR_NUM_PTS	Standard Station22 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP25_REQ_NUM_PTS	Standard Station22 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP26_CUR_NUM_PTS	Standard Station23 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP26_REQ_NUM_PTS	Standard Station23 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP27_CUR_NUM_PTS	Standard Station24 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GRP27_REQ_NUM_PTS	Standard Station24 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>

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HistConfig								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
APPLY_CONFIG	Apply Config  0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/O:</b> Operator; Auditor  <b>R/W:</b> Admin; Engineer; Meas. Tech  <b>R/O:</b> Operator; Auditor	2.0.0.XXX	▪ Log Change ▪ Legal
GRP_MAX_NUM_PTS	Max Num of Std Pts in Group	UINT16	0→800	800		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	▪ Log Change ▪ Legal
GRP28_CUR_NUM_PTS	Standard Station23 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.03.00.XXX	Legal
GRP28_REQ_NUM_PTS	Standard Station23 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech  <b>R/O:</b> Operator; Auditor	2.03.00.XXX	▪ Log Change ▪ Legal
GRP29_CUR_NUM_PTS	Standard Station23 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.03.00.XXX	Legal
GRP29_REQ_NUM_PTS	Standard Station23 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech  <b>R/O:</b> Operator; Auditor	2.03.00.XXX	▪ Log Change ▪ Legal
GRP30_CUR_NUM_PTS	Standard Station23 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.03.00.XXX	Legal
GRP30_REQ_NUM_PTS	Standard Station23 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer;	2.03.00.XXX	▪ Log Change ▪ Legal



HistConfig								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
						Meas. Tech <b>R/O:</b> Operator; Auditor		
GRP31_CUR_NUM_PTS	Standard Station23 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.03.00.XXX	Legal
GRP31_REQ_NUM_PTS	Standard Station23 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.03.00.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP32_CUR_NUM_PTS	Standard Station23 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.03.00.XXX	Legal
GRP32_REQ_NUM_PTS	Standard Station23 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.03.00.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP33_CUR_NUM_PTS	Standard Station23 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.03.00.XXX	Legal
GRP33_REQ_NUM_PTS	Standard Station23 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.03.00.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP34_CUR_NUM_PTS	Standard Station23 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.03.00.XXX	Legal

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HistConfig								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
GRP34_REQ_NUM_PTS	Standard Station23 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.03.00.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP35_CUR_NUM_PTS	Standard Station23 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.03.00.XXX	Legal
GRP35_REQ_NUM_PTS	Standard Station23 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.03.00.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP36_CUR_NUM_PTS	Standard Station23 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.03.00.XXX	Legal
GRP36_REQ_NUM_PTS	Standard Station23 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.03.00.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP37_CUR_NUM_PTS	Standard Station23 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.03.00.XXX	Legal
GRP37_REQ_NUM_PTS	Standard Station23 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.03.00.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP38_CUR_NUM_PTS	Standard Station23 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer;	2.03.00.XXX	Legal

<b>HistConfig</b>								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
GRP38_REQ_NUM_PTS	Standard Station23 Requested Num of Pts	UINT16	0→800	25		Meas. Tech; Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.03.00.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
GRP39_CUR_NUM_PTS	Standard Station23 Current Num of Pts	UINT16	0→800	25		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.03.00.XXX	Legal
GRP39_REQ_NUM_PTS	Standard Station23 Requested Num of Pts	UINT16	0→800	25		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.03.00.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
NUM_REQ_STD_PTS	Total Num of Requested Standard Points	UINT16	1- >1350	610		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	02.09.00.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
NUM_CUR_PER_RCD	Num of Current Hourly Records	UINT16	0- >26325	4380		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	02.09.00.XXX	Legal
NUM_REQ_PER_RCD	Num of Requested Hourly Records	UINT16	0- >26325	4380		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	02.09.00.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
NUM_CUR_DAY_RCD	Num of Current Daily Records	UINT16	0- >26325	730		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	02.09.00.XXX	Legal

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NUM_REQ_DAY_RCD	Num of Requested Daily Records	UINT16	0- >26325	730		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	02.09.00.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
NUM_CUR_WK_RCD	Num of Current Weekly Records	UINT16	0- >26325	260		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	02.09.00.XXX	Legal
NUM_REQ_WK_RCD	Num of Requested Weekly Records	UINT16	0- >26325	260		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	02.09.00.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
NUM_CUR_MNTH_RCD	Num of Current Monthly Records	UINT16	0- >26325	60		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	02.09.00.XXX	Legal
NUM_REQ_MNTH_RCD	Num of Requested Monthly Records	UINT16	0- >26325	60		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	02.09.00.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
APPLY_RESIZE	Apply Resize	ENUM16	0->1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	02.09.00.XXX	<ul style="list-style-type: none"> <li>▪ Log Change</li> <li>▪ Legal</li> </ul>
APPLY_RESIZE_STATUS	Std History Resizing Status	ENUM16	0->5		Apply Resize Values (349)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	02.09.00.XXX	Legal

## 5.35 Hist Grp Parameters

**Description:** The Hist Grp object provides the parameters for configuring history groups.

**Number of Instances:** 39 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-34: Hist Grp Parameters**

Hist Grp								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: 1-User Periodic 1 2-User Periodic 2 3-General History Instance: "X Station (Y) History" (where X is instance number between 4 and 39 and Y is number between 1 and 24)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20		Instance: 1-User Periodic 1		<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Hist Grp								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
				2-User Periodic 2 3-General History Instance: "X Station (Y History" (where X is instance number between 4 and 27 and Y is number between 1 and 24)		Meas. Tech <b>R/O:</b> Operator; Auditor		
GRP_TYPE	History Group Type 0 - General History 1 - Meter History 2 - User Periodic	ENUM16	0→2	Instance: 1 - User Periodic (2) 2 - User Periodic (2) 3 - General History (0) 4-27: Meter History (1)	History Group Type (84)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
STATION_OBJ	Station Assignment	ObjectRef	Station	Instance: 1-3: Undefined Instance: "X Station (Y History" (where X is instance number between 4 and 27 and Y is number between 1 and 24)		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NUM_PTS	Number of History Points	UINT16	0→800	Instance: 1-10 2-20 3-10 4-27: 25		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CONTRACT_HR	Contract Hour	UINT8	0→23	0		For Instances 1-2: <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Hist Grp								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
						For instances 3-27: <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		
CONTRACT_WKDAY	Contract Day of Week 0 - Sunday 1 - Monday 2 - Tuesday 3 - Wednesday 4 - Thursday 5 - Friday 6 - Saturday	ENUM16	0→6	Sunday (0)	Day of Week (34)	For Instances 1-2: <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor  For instances 3-27: <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CONTRACT_DAY	Contract Day of Month 1 - 1 2 - 2 3 - 3 4 - 4 5 - 5 6 - 6 7 - 7 8 - 8 9 - 9 10 - 10 11 - 11 12 - 12 13 - 13 14 - 14 15 - 15	ENUM16	1→31	1 (1)	Contract Day of Month (157)	For instances 1-2: <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor  For instances 3-27: <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Hist Grp								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	16 - 16							
	17 - 17							
	18 - 18							
	19 - 19							
	20 - 20							
	21 - 21							
	22 - 22							
	23 - 23							
	24 - 24							
	25 - 25							
	26 - 26							
	27 - 27							
	28 - 28							
	29 - 3rd from Last Day of Month							
	30 - 2nd to Last Day of Month							
	31 - Last Day of Month							
USER_PERIOD	User Period	UINT32	1→ 720000	60	s (17-0)	Flr instances 1-2: <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor  For instances 3-27: <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
PER_OPT	Hourly History Option 0 - Disable 1 - Enable	ENUM16	0→1	Enable (1)	Enable/Disable Selection (30)	For instances 1-2: <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>



Hist Grp								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
						For instances 3-27: <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		
DAY_OPT	Daily History Option 0 - Disable 1 - Enable	ENUM16	0→1	Enable (1)	Enable/Disable Selection (30)	For instances 1-2: <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
						For instances 3-27: <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		
WK_OPT	Weekly History Option 0 - Disable 1 - Enable	ENUM16	0→1	Enable (1)	Enable/Disable Selection (30)	For instances 1-2: <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
						For instances 3-27: <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		
MNTH_OPT	Monthly History Option 0 - Disable 1 - Enable	ENUM16	0→1	Enable (1)	Enable/Disable Selection (30)	For instances 1-2: <b>R/O:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Hist Grp								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
						Meas. Tech; Operator; Auditor		
						For instances 3-27: <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		
PER_LOG_OBJ	Hourly Log	ObjectRef		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
DAY_LOG_OBJ	Daily Log	ObjectRef		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
WK_LOG_OBJ	Weekly Log	ObjectRef		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
MNTH_LOG_OBJ	Monthly Log	ObjectRef		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
USER_LOG_OBJ	User Periodic Log	ObjectRef		Instance: 1-Log_5 2-Log_6 <b>3-27: Undefined</b>		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
START_HIST_OBJ	Start History Object	ObjectRef	Hist	Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

Hist Grp								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CONFIG_CHNG_CNTR	Config change counter	UINT8		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

## 5.36 HostLink Parameters

**Description:** The HostLink object allows for the configuration of DNP3 hosts that need to receive DNP3 events.

**Number of Instances:** 10 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-35: HostLink Parameters**

HostLink								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Host Link		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.8.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0 → 5	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.8.0.XXX	Log Changes
OBJ_STATUS	Status: 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.8.0.XXX	
ASSIGN_PORT	Port to retrieve events	OBJREF				R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.8.0.XXX	Log Changes
IP_ADDR	IP address of host	ByteArray 4			IPv4 Address (41)	R/W: Admin; Engineer; Meas. Tech	2.8.0.XXX	Log Changes

HostLink								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SA_ENABLE	DNP3 Secure Authentication Enable	ENUM16	0->1	1	Enable/Disable Selection (30)	R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.12.0.XXX	Log Changes

## 5.37 IoConfig Parameters

**Description:** The IoConfig object provides the parameters for configuring Input and output types.

**Number of Instances:** 31 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-36: IoConfig Parameters**

IO Config									
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes	
OBJ_NAME	Tag	UC20		Instance: "IoConfig_X" (where X is instance number between 2 and 8)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>	
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes	
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX		
MOD_LOC	Module Location	UINT8		Instance: 2-2 3-3 4-4 5-5 6-6 7-7 8-8		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal	

IO Config								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DESC	Description	UC20		Instance: "Slot_X" (where X is instance number between 2 and 8)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DB_CHANGE	Change in Progress 0 - Inactive 1 - Active	ENUM16		Inactive (0)	Action Block Status (166)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
INSTALLED	Installed 0 - No 1 - Yes	ENUM16		No (0)	Yes/No Option (208)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
LICENSED	Module Licensed 0 - No 1 - Yes	ENUM16		No (0)	Yes/No Option (208)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
MODULE_MODE	Module Mode 0 - Not Installed 1 - Boot 2 - Normal 3 - Not Licensed 4 - Communication Failure 5 - Module Failure 6 - Power Off 7 - Termination Missing 8 - Firmware Mismatch 9 - Module Mismatch	ENUM16		Not Installed (0)	Module Mode (143)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
MODULE_TYPE	Module Type 0 - None 1 - 8AIDIPI 2AO 2DO 4 - 8AODO 49 - HART 4	ENUM16		None (0)	Module Subtype (210)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
CONFIG_TYPE	Sensor Type 0 - None	ENUM16	0→50	None (0)	Module Subtype (210)	<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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IO Config								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	1 - 8AIDIPI 2AO 2DO 4 - 8AODO					Meas. Tech <b>R/O:</b> Operator; Auditor		<ul style="list-style-type: none"> <li>Verified</li> </ul>
IO_LOOP_POWER	IO Loop Power Control 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>Log Changes</li> <li>Legal</li> <li>Verified</li> </ul>
NUM_CHANNELS	Number of Channels	UINT8		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
NUM_GOOD_MSG	Number of Good Messages	UINT32		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
NUM_BAD_MSG	Number of Bad Messages	UINT32		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
RESET_MSG_COUNT	Reset Message Counters 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>Log Changes</li> <li>Legal</li> <li>Verified</li> </ul>



## 5.38 Linear Meter Parameters

**Description:** The Linear Meter object provides the parameters for configuring linear meters.

**Number of Instances:** 36 instances may exist (varies with license installed and number of configured meters)

**Storage Location:** Saved to internal configuration memory.

**Table 5-37: Linear Meter Parameters**

Linear Meter								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "Linear Mtr_X" (where X is instance number between 1 and 36)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
STATION_OBJ	Station Assignment	ObjectRef	Station	Station_1		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Linear Meter								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FLUID_PROP_OBJ	Fluid Properties Reference	ObjectRef	Fluid Prop	Instance: "Fluid Prop_X" (where X is instance number between 101 and 124)		R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MTR_TYPE	Meter Type 0 - Turbine 1 - Coriolis 2 - Auto-Adjust 3 - Ultrasonic 4 - Positive Displacement	ENUM16	0→4	Turbine (0)	Linear Meter Type (53)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SER_NUM	Serial Number	UC20		Undefined		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
PRESS_TYPE	Pressure Transmitter Type 0 - Gauge 1 - Absolute	ENUM16	0→1	Absolute (1)	SP Type Selection (57)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NO_FLOW_TIME	No Flow Time	DOUBLE	≥ 1	1	s (17-0)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NO_FLOW_LIM	No Flow Cut-off Limit	DOUBLE	≥ 0	0	Hz (24-0)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Linear Meter								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
NO_FLOW_OPT	No Flow Option 0 - Time Between Pulses 1 - Flow Cut-off	ENUM16	0→1	Time Between Pulses (0)	No Flow Option (238)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NO_FLOW_STATUS	No Flow Status 0 - Not Flowing 1 - Flowing	ENUM16		Not Flowing (0)	No Flow Status (239)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
FLOW_OBJ	Indicated Flow	ObjectRef		Instance: 1-24: Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FLOW_SEC_OBJ	Secondary Flow Input Object	ObjectRef	PI	Instance: 1-24: Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
PF_OBJ	Static Pressure Object	ObjectRef		Instance: 1-24: Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
TF_OBJ	Flowing Temperature Object	ObjectRef		Instance: 1-24: Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
PF_INUSE	Flowing Pressure In Use	DOUBLE		0	psi(a) (2-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
TF_INUSE	Flowing Temperature In Use	DOUBLE		0	°F (3-0)	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

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Linear Meter								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FREQ_INUSE	Frequency In Use	DOUBLE		0	Hz (24-0)	Meas. Tech Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
FLW_ALM_OBJ	Flow Alarm Object	ObjectRef	Alarm	Instance: "Alarm_X" (where X is instance number between 101 and 124)		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
FCALC_ALM	Flow Calculation Alarm Code 0 - Normal 1 - Invalid Input(s) 2 - Invalid Configuration 3 - Calculation Error 4 - Boundary Error 5 - Invalid Station Assignment 6-8 - RESERVED 9 - Flow 10 - Pressure 11 - Temperature 12 - Flowing Density/Compressibility 13 - Base Density/Compressibility 14 - Relative Density 15 - Heating Value/Enthalpy 16 - Viscosity 17 - User Correction Factor 18 - Total/Increment 19 - Integral Multiplier Value 20-25 - RESERVED 26 - K-factor/Meter Factor	BIN32		Normal	Linear Flow Calculation Alarm (264)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

Linear Meter								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	27 - Mass Pressure Correction Factor							
IMV_SEL	Integral Multiplier Value (IMV/C-Factor)	DOUBLE		1		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
FACTOR_CURVE_OPT	Meter Factor / K-factor Curve Option 0 - Single Meter Factor / Single K-factor 1 - Meter Factor Curve / Single K-factor 2 - Single Meter Factor / K-factor Curve	ENUM16	0→2	Single Meter Factor / Single K-factor (0)	Factor Curve Option (183)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MF_OVRD	Override Meter Factor	DOUBLE	≥ 0.000001	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MF_CALC	Calculated Meter Factor	DOUBLE	≥ 0	1		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
MF_SEL	Selected Meter Factor	DOUBLE	≥ 0	1		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
MF_UMODE	Meter Factor Mode 1 - Override 2 - Calculated	ENUM16	1→2	Override (1)	User Mode Selection 2 (97)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
KF_OVRD	Override K-factor	DOUBLE	≥ 0.000001	1	pulses/ft <sup>3</sup> (27-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
KF_CALC	Calculated K-factor	DOUBLE	≥ 0	1	pulses/ft <sup>3</sup> (27-0)	R/O: Operator; Auditor	2.0.0.XXX	Legal
KF_SEL	Selected K-factor	DOUBLE	≥ 0	1	pulses/ft <sup>3</sup> (27-0)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
KF_UMODE	K-Factor Mode 1 - Override 2 - Calculated	ENUM16	1→2	Override (1)	User Mode Selection 2 (97)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
USER_CORR_FACTOR	User Correction Factor	DOUBLE	≥ 0	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
IQ_RATE	Indicated Quantity Flow Rate	DOUBLE		0	MCF/d (12-7)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
UVOL_RATE	Uncorrected Volume Flow Rate	DOUBLE		0	MCF/d (12-7)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
SVOL_RATE	Corrected Volume Flow Rate	DOUBLE		0	MCF/d (12-7)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
MASS_RATE	Mass Flow Rate	DOUBLE		0	Mlb/d (13-7)	R/O: Admin; Engineer;	2.0.0.XXX	Legal

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ENERGY_RATE	Energy Flow Rate	DOUBLE		0	MMBtu/d (14-7)	Meas. Tech Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
UVOL_RAW_TOT	Uncorrected Volume Total	DOUBLE		0	MCF (9-2)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
SVOL_RAW_TOT	Corrected Volume Total	DOUBLE		0	MCF (9-2)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
MASS_RAW_TOT	Mass Total	DOUBLE		0	Mlb (10-2)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
ENERGY_RAW_TOT	Energy Total	DOUBLE		0	MMBtu (11-1)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
FLWTM_RAW_TOT	Flow Time Total	DOUBLE		0	s (359-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
PULSE_RAW_TOT	Pulse Total	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
UVOL_TOT_OBJ	Uncorrected Volume Total Object	ObjectRef	Total	Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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SVOL_TOT_OBJ	Corrected Volume Total Object	ObjectRef	Total	Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MASS_TOT_OBJ	Mass Total Object	ObjectRef	Total	Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ENERGY_TOT_OBJ	Energy Total Object	ObjectRef	Total	Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FLWTM_TOT_OBJ	Flow Time Total Object	ObjectRef	Total	Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
PULSE_TOT_OBJ	Pulse Total Object	ObjectRef	Total	Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
PRESS_MULT	Pressure Multiplier	DOUBLE		1		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
TEMP_MULT	Temperature Multiplier	DOUBLE		1		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
COMP_MULT	Compressibility Multiplier	DOUBLE		1		<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal



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FACTOR_1	K-factor/MF 1	DOUBLE	≥ 100	1		Meas. Tech Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_1_FLOW	Frequency/Flowrate 1	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_2	K-factor/MF 2	DOUBLE	≥ 100	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_2_FLOW	Frequency/Flowrate 2	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_3	K-factor/MF 3	DOUBLE	≥ 100	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_3_FLOW	Frequency/Flowrate 3	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_4	K-factor/MF 4	DOUBLE	≥ 100	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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FACTOR_4_FLOW	Frequency/Flowrate 4	DOUBLE	≥ 0	0		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_5	K-factor/MF 5	DOUBLE	≥ 100	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_5_FLOW	Frequency/Flowrate 5	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_6	K-factor/MF 6	DOUBLE	≥ 100	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_6_FLOW	Frequency/Flowrate 6	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_7	K-factor/MF 7	DOUBLE	≥ 100	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_7_FLOW	Frequency/Flowrate 7	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	▪ Log Changes ▪ Legal

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FACTOR_8	K-factor/MF 8	DOUBLE	≥ 100	1		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_8_FLOW	Frequency/Flowrate 8	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_9	K-factor/MF 9	DOUBLE	≥ 100	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_9_FLOW	Frequency/Flowrate 9	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_10	K-factor/MF 10	DOUBLE	≥ 100	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_10_FLOW	Frequency/Flowrate 10	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_11	K-factor/MF 11	DOUBLE	≥ 100	1		R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	▪ Log Changes ▪ Legal

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FACTOR_11_FLOW	Frequency/Flowrate 11	DOUBLE	≥ 0	0		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_12	K-factor/MF 12	DOUBLE	≥ 100	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_12_FLOW	Frequency/Flowrate 12	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_13	K-factor/MF 13	DOUBLE	≥ 100	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_13_FLOW	Frequency/Flowrate 13	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_14	K-factor/MF 14	DOUBLE	≥ 100	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_14_FLOW	Frequency/Flowrate 14	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	▪ Log Changes ▪ Legal

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FACTOR_15	K-factor/MF 15	DOUBLE	≥ 100	1		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_15_FLOW	Frequency/Flowrate 15	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_16	K-factor/MF 16	DOUBLE	≥ 100	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor		<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_16_FLOW	Frequency/Flowrate 16	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_17	K-factor/MF 17	DOUBLE	≥ 100	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_17_FLOW	Frequency/Flowrate 17	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_18	K-factor/MF 18	DOUBLE	≥ 100	1		R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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FACTOR_18_FLOW	Frequency/Flowrate 18	DOUBLE	≥ 0	0		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_19	K-factor/MF 19	DOUBLE	≥ 100	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_19_FLOW	Frequency/Flowrate 19	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_20	K-factor/MF 20	DOUBLE	≥ 100	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_20_FLOW	Frequency/Flowrate 20	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
MASS_CORR_PF_OPT	Mass Pressure Effect Option 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
PCAL	Calibration Pressure	DOUBLE		0	psi(g) (29-0)	R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	▪ Log Changes ▪ Legal

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MASS_CORR_PF_COEFF	Mass Pressure Effect	DOUBLE	≤ 0	-0.0002	%/psi (247-0)	R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
AA_CAL_MODE_ENB	Auto Adjust Calibration Mode Enable 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
AA_VOL_RATE_MECH	Auto Adjust Mechanical Rate	DOUBLE		0	MCF/d (12-7)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Legal</li> </ul>
AA_KF_MECH	Auto Adjust Mechanical K-factor	DOUBLE	≥ 0.000001	1	pulses/ft <sup>3</sup> (27-0)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
AA_KF_MAIN	Auto Adjust Main Rotor K-factor	DOUBLE	≥ 0.000001	1	pulses/ft <sup>3</sup> (27-0)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
AA_KF_SENS	Auto Adjust Sensing Rotor K-factor	DOUBLE	≥ 0.000001	1	pulses/ft <sup>3</sup> (27-0)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
AA_RESET_ALG	Auto Adjust Algorithm Reset Enable 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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PIPE_DIAM	Pipe Diameter	DOUBLE	$\geq$ 0.000001	8	in (7-0)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
AA_AVG_REL_ADJ	Auto Adjust Relative Adjustment	DOUBLE	0→100	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
AA_MAX_FREQ	Auto Adjust Maximum Frequency	DOUBLE	$\geq$ 0.000001	1000	Hz (24-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
AA_DELTA_A_BASE	Auto Adjust Base Delta A	DOUBLE		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
AA_DELTA_A_CALC	Auto Adjust Calculated Delta A	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
AA_NORMAL_BAND	Auto Adjust Normal Band	DOUBLE	0→100	0.2	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
AA_ABNORMAL_BAND	Auto Adjust Abnormal Band	DOUBLE	0→100	0.3	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>



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AA_LOAD_CALC	Auto Adjust Calculated Load	DOUBLE		0	% (18-0)	R/O: Operator; Auditor	2.0.0.XXX	Legal
AA_BLADE_FACTOR	Auto Adjust Blade Factor	DOUBLE		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
AA_TEST_TIMER	Auto Adjust Test Timer	DOUBLE		0	s (17-0)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
AA_TEST_PULSE_ACCUM	Auto Adjust Pulse Accum	DOUBLE		0	Pulses (141-0)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
AA_TEST_FREQ_MAIN	Auto Adjust Main Rotor Frequency	DOUBLE		0	Hz (24-0)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
AA_TEST_FREQ_SENS	Auto Adjust Sensing Rotor Frequency	DOUBLE		0	Hz (24-0)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
AA_TEST_RATE_MAIN	Auto Adjust Main Rotor Test Flowrate	DOUBLE		0	ft <sup>3</sup> /s (12-0)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
AA_TEST_RATE_SENS	Auto Adjust Sensing Rotor Test Flowrate	DOUBLE		0	ft <sup>3</sup> /s (12-0)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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AA_TEST_ACCUM_MAIN	Auto Adjust Main Rotor Test Accum	DOUBLE		0	ft <sup>3</sup> (9-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
AA_TEST_ACCUM_SENS	Auto Adjust Sensing Rotor Test Accum	DOUBLE		0	ft <sup>3</sup> (9-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
AA_INITIAL_CYCLE	Auto Adjust Initial Cycle Status 0 - Initial Cycle Complete 1 - Initial Cycle In Progress	ENUM16		Initial Cycle In Progress (1)	Auto Adjust Initial Cycle (227)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
AA_SYSTEM_ALARM	Auto Adjust System Alarm 0 - Normal Flow 1 - No Flow / Loss of Both Pulses 2 - Leakage or Resonant No-Net Flow 3 - No Main Rotor Pulses 4 - No Sensing Rotor Pulses	ENUM16		Normal Flow (0)	Auto Adjust System Alarm (228)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
AA_FLOW_ALARM	Auto Adjust Flow Alarm 0 - Normal Flow 1 - Non-steady Flow	ENUM16		Normal Flow (0)	Auto Adjust Flow Alarm (229)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
AA_DELTA_A_ALARM	Auto Adjust Delta A Alarm 0 - Normal 1 - Low Warning 2 - High Warning 3 - Low Alarm 4 - High Alarm	ENUM16		Normal (0)	Auto Adjust Delta A Alarm (230)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
AA_ALARM_LOG_OPT	Auto-Adjust Alarm Log Option 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Linear Meter								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
UVOL_FLT_TOT_OBJ	Uncorrected Volume Fault Total Object	ObjectRef	Total	Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.9.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SVOL_FLT_TOT_OBJ	Corrected Volume Fault Total Object	ObjectRef	Total	Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.9.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MASS_FLT_TOT_OBJ	Mass Fault Total Object	ObjectRef	Total	Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.9.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ENERGY_FLT_TOT_OBJ	Energy Fault Total Object	ObjectRef	Total	Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.9.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

## 5.39 Liq Dens Parameters

**Description:** The Liq Dens object provides the parameters for configuring liquid density properties.

**Number of Instances:** 12 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-38: Liq Dens Parameters**

Liq Dens								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "Liq Dens_X" (where X is instance number between 1 and 36)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0 -> 5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Log Changes
OBJ_STATUS	Status	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.5.0.XXX	
DESC	Description	UC20				<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Log Changes
DENS_PARAM	Density Parameter	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Log Changes

Liq Dens								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TD_PARAM	Density Temperature Parameter	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Log Changes
PD_PARAM	Density Pressure Parameter	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	Log Changes
DENS_FACTOR	Density Correction Factor	Double	≥ 0	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	▪ Log Changes

## 5.40 Liq FIProp Parameters

**Description:** The Liq FIProp object provides the parameters for liquid fluid properties.

**Number of Instances:** 36 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-39: Liq FIProp Parameters**

Liq FIProp								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "Liq FIProp_X" (where X is instance number between 1 and 36)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	1 → 5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20				<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
WC_METHOD	Water Cut Method 0 - Dynamic 1 - Static	ENUM16	0 → 1	Dynamic (0)	Water Cut Method (283)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Liq FIProp								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
WC_T_OVRD	Static Water Cut Temperature	DOUBLE		68	°F (3-0)	R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
WC_LAB	Static Water Cut	DOUBLE	≥ 0	0	% (18-0)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DENSB_W_PARAM	Water Base Density Parameter	ParamRef		Undefined		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
DENSB_W_OVRD	Override Water Base Density	DOUBLE	≥ 0	1	g/cc (295-2)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DENSB_W_UMODE	Water Base Density Mode 0 - Measured 1 - Override	ENUM16	0 → 1	Override (1)	User Mode Selection 5 (285)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DENSB_W_SEL	Selected Water Base Density	DOUBLE		1	g/cc (295-2)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
DENSB_O_PARAM	Oil Base Density Parameter	ParamRef		Undefined		R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DENSB_O_OVRD	Override Oil Base Density	DOUBLE	≥ 0	30	°API (294-8)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DENSB_O_CALC	Calculated Oil Base Density	DOUBLE		0	°API (294-8)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
DENSB_O_UMODE	Oil Base Density Mode 0 - Measured 1 - Override	ENUM16	0 → 1	Override (1)	User Mode Selection 5 (285)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DENSB_O_SEL	Selected Oil Base Density	DOUBLE		0	°API (294-8)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
DENSF_PARAM	Flowing Density Parameter	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
DENSF_OVRD	Override Flowing Density	DOUBLE	≥ 0	0.0001	°API (294-8)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DENSF_UMODE	Flowing Density Mode 0 - Measured 1 - Override	ENUM16	0 → 1	Override (1)	User Mode Selection 5 (285)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>



Liq FIProp								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DENSF_SEL	Selected Flowing Density	DOUBLE		0.0001	°API (294-8)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
WC_PARAM	Water Cut Parameter	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
WC_OVRD	Water Cut Override	DOUBLE	≥ 0	0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
WC_UMODE	Water Cut Mode 0 - Measured 1 - Override	ENUM16	0 → 1	Override (1)	User Mode Selection 5 (285)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
WC_SEL	Selected Water Cut	DOUBLE		0	% (18-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
WC_FRAC_INUSE	Water Cut at Metering Conditions	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
SF_PARAM	Shrinkage Factor Parameter	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
SF_OVRD	Override Shrinkage Factor	DOUBLE	≥ 0	1		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SF_UMODE	Shrinkage Factor Mode 0 - Measured 1 - Override	ENUM16	0 → 1	Override (1)	User Mode Selection 5 (285)	R/O: Operator; Auditor  R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SF_SEL	Selected Shrinkage Factor	DOUBLE		1		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
NGLF_PARAM	NGL Factor Parameter	ParamRef		Undefined		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
NGLF_OVRD	Override NGL Factor	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NGLF_UMODE	NGL Factor Mode 0 - Measured 1 - Override	ENUM16	0 → 1	Override (1)	User Mode Selection 5 (285)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NGLF_SEL	Selected NGL Factor	DOUBLE		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
GASF_PARAM	Flash Gas Factor Parameter	ParamRef		Undefined		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal

Liq FIProp								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
GASF_OVRD	Override Flash Gas Factor	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
GASF_UMODE	Flash Gas Factor Mode 0 - Measured 1 - Override	ENUM16	0 → 1	Override (1)	User Mode Selection 5 (285)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
GASF_SEL	Selected Flash Gas Factor	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
PCALC_ALM	Property Calculation Alarm Code <b>0 - Undefined</b> 1 - Invalid Input(s) 2 - Invalid Configuration 3 - Calculation Error 4 - Boundary Error 9 - Pressure 10 - Temperature 12 - Base Density/Compressibility <b>13-16: Undefined</b> 17 - Atmospheric Press/Gravitational Accel	BIN32			Liq LinMtr Property Calculation Alarm (282)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
DENSF_CALC	Calcuated Flowing Density	DOUBLE		0	°API (294-8)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.3.0.XXX	Legal
PE_INUSE	Equilibrium Pressure In Use (Absolute)	DOUBLE			psi(a) (2)	<b>R/O:</b> Admin; Engineer;	2.8.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FP_INUSE	Compressibility Factor In Use	DOUBLE			1/psi (357)	Meas. Tech Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.8.0.XXX	Legal

## 5.41 Liq LinMtr Parameters

**Description:** The Liq LnMtr object provides the parameters for configuring liquid linear meters.

**Number of Instances:** 36 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-40: Liq LinMtr Parameters**

Liq LinMtr								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "Liq LinMtr_X" (where X is instance number between 1 and 36)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0 → 5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
STATION_OBJ	Station Assignment	ObjectRef	Station	Station_1		<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Liq LinMtr								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FLUID_PROP_OBJ	Fluid Properties Reference	ObjectRef	Liq FIProp	Instance: "Liq FIProp_X" (where X is instance number between 1 and 36)		Meas. Tech <b>R/O:</b> Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MTR_TYPE	Meter Type 0 - Turbine 1 - Coriolis 2 - Ultrasonic 3 - Positive Displacement	ENUM16	0 → 3	Turbine (0)	Liq LinMtr Linear Meter Type (279)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SER_NUM	Serial Number	UC20				<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
PRESS_TYPE	Pressure Transmitter Type 0 - Gauge 1 - Absolute	ENUM16	0 → 1	Absolute (1)	SP Type Selection (57)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NO_FLOW_TIME	No Flow Time	DOUBLE	≥ 1	1	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NO_FLOW_LIM	No Flow Cut-off Limit	DOUBLE	≥ 0	0	Hz (24-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Liq LinMtr								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
NO_FLOW_OPT	No Flow Option 0 - Time Between Pulses 1 - Flow Cut-off 2- Flow Cut-off with accumulation	ENUM16	0 → 2	Time Between Pulses (0)	No Flow Option (238)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NO_FLOW_STATUS	No Flow Status 0 - Not Flowing 1 - Flowing	ENUM16		Not Flowing (0)	No Flow Status (239)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
RATE_PARAM	Flow Rate Parameter	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
PF_OBJ	Static Pressure Object	ObjectRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
TF_OBJ	Flowing Temperature Object	ObjectRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FREQ_INUSE	Frequency In Use	DOUBLE		0	Hz (24-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
PF_INUSE	Flowing Pressure In Use	DOUBLE		0	psi(a) (2-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TF_INUSE	Flowing Temperature In Use	DOUBLE		0	°F (3-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
FLW_ALM_OBJ	Flow Alarm Object	ObjectRef	Alarm	Instance: "Alarm_3X" (where X is instance number between 1 and 24)		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
FCALC_ALM	Flow Calculation Alarm Code <b>0 - Undefined</b> 1 - Invalid Input(s) 2 - Invalid Configuration 3 - Calculation Error 4 - Boundary Error 5 - Invalid Station Assignment 6-8: Undefined 9 - Flow 10 - Pressure 11 - Temperature 12 - Flowing Density 13 - Base Density 18 - Total/Increment 19-25: Undefined 26 - K-factor/Meter Factor 27 - Mass Pressure Correction Factor 28 - Water Cut 29 - Shrinkage Factor 30 - CTL 31 - NGL Factor/Flash Gas Factor	BIN32			Liq LinMtr Flow Calculation Alarm (281)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal



Liq LinMtr								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FACTOR_CURVE_OPT	Meter Factor / K-factor Curve Option 0 - Single Meter Factor / Single K-factor 1 - Meter Factor Curve / Single K-factor 2 - Single Meter Factor / K-factor Curve	ENUM16	0 → 2	Single Meter Factor / Single K-factor (0)	Factor Curve Option (183)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MF_OVRD	Override Meter Factor	DOUBLE	≥ 0.000001	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MF_CALC	Calculated Meter Factor	DOUBLE	≥ 0	1		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
MF_UMODE	Meter Factor Mode 1 - Override 2 - Calculated	ENUM16	1 → 2	Override (1)	User Mode Selection 2 (97)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MF_SEL	Selected Meter Factor	DOUBLE	≥ 0	1		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
KF_OVRD	Override K-factor	DOUBLE	≥ 0.000001	1	pulses/ft <sup>3</sup> (27-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
KF_CALC	Calculated K-factor	DOUBLE	≥ 0	1	pulses/ft <sup>3</sup> (27-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

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KF_UMODE	K-Factor Mode 1 - Override 2 - Calculated	ENUM16	1 → 2	Override (1)	User Mode Selection 2 (97)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
KF_SEL	Selected K-factor	DOUBLE	≥ 0	1	pulses/ft <sup>3</sup> (27-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CTLM_W_PARAM	Water CTLM Parameter	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
CTLM_W_OVRD	Override Water CTLM	DOUBLE	≥ 0	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CTLM_W_CALC	Calculated Water CTLM	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
CTLM_W_UMODE	Water CTLM Mode 0 - Measured 1 - Override 2 - Calculated	ENUM16	0 → 2	Calculated (2)	User Mode Selection 1 (79)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CTLM_W_SEL	Selected Water CTLM	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
IQ_RATE	Indicated Quantity Flow Rate	DOUBLE		0	MCF/d (12-7)	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
GVOL_RATE	Gross Volume Flow Rate	DOUBLE		0	MCF/d (12-7)	Meas. Tech; Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
UVOL_O_RATE	Oil Unshrunk Volume Flow Rate	DOUBLE		0	bbl/d (298-35)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SVOL_O_RATE	Oil Net Volume Flow Rate	DOUBLE		0	bbl/d (298-35)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
UVOL_W_RATE	Water Uncorrected Volume Flow Rate	DOUBLE		0	bbl/d (299-35)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SVOL_W_RATE	Water Net Volume Flow Rate	DOUBLE		0	bbl/d (299-35)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SVOL_FG_RATE	Flash Gas Net Volume Flow Rate	DOUBLE		0	bbl/d (298-35)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SVOL_NGL_RATE	NGL Net Volume Flow Rate	DOUBLE		0	bbl/d (298-35)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
UVOL_O_RAW_TOT	Oil Unshrunk Volume Total	DOUBLE		0	bbl (296-8)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

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SVOL_O_RAW_TOT	Oil Net Volume Total	DOUBLE		0	bbl (296-8)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
IQ_RAW_TOT	Indicated Quantity Total	DOUBLE		0	bbl (296-8)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
GVOL_RAW_TOT	Gross Volume Total	DOUBLE		0	bbl (296-8)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
UVOL_W_RAW_TOT	Water Metered Volume Total	DOUBLE		0	bbl (297-8)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SVOL_W_RAW_TOT	Water Net Volume Total	DOUBLE		0	bbl (297-8)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SVOL_FG_RAW_TOT	Flash Gas Net Volume Total	DOUBLE		0	bbl (296-8)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SVOL_NGL_RAW_TOT	NGL Net Volume Total	DOUBLE		0	bbl (296-8)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
PULSE_RAW_TOT	Pulse Total	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
IQ_TOT_OBJ	Indicated Quantity Total Object	ObjectRef	Total	Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Liq LinMtr								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
GVOL_TOT_OBJ	Gross Volume Total Object	ObjectRef	Total	Varies by instance		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
UVOL_O_TOT_OBJ	Oil Unshrunk Volume Total Object	ObjectRef	Total	Varies by instance		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
SVOL_O_TOT_OBJ	Oil Net Volume Total Object	ObjectRef	Total	Varies by instance		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
UVOL_W_TOT_OBJ	Water Metered Volume Total Object	ObjectRef	Total	Varies by instance		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
SVOL_W_TOT_OBJ	Water Net Volume Total Object	ObjectRef	Total	Varies by instance		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
SVOL_FG_TOT_OBJ	Flash Gas Net Volume Total Object	ObjectRef	Total	Varies by instance		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
SVOL_NGL_TOT_OBJ	NGL Net Volume Total Object	ObjectRef	Total	Varies by instance		R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	▪ Log Changes ▪ Legal

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PULSE_TOT_OBJ	Pulse Total Object	ObjectRef	Total	Varies by instance		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_1	K-factor/MF 1	DOUBLE	≥ 0.000001	1		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_1_FLOW	Frequency/Flowrate 1	DOUBLE	≥ 0	0		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_2	K-factor/MF 2	DOUBLE	≥ 0.000001	1		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_2_FLOW	Frequency/Flowrate 2	DOUBLE	≥ 0	0		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_3	K-factor/MF 3	DOUBLE	≥ 0.000001	1		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_3_FLOW	Frequency/Flowrate 3	DOUBLE	≥ 0	0		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	▪ Log Changes ▪ Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FACTOR_4	K-factor/MF 4	DOUBLE	≥ 0.000001	1		<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_4_FLOW	Frequency/Flowrate 4	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_5	K-factor/MF 5	DOUBLE	≥ 0.000001	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_5_FLOW	Frequency/Flowrate 5	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_6	K-factor/MF 6	DOUBLE	≥ 0.000001	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_6_FLOW	Frequency/Flowrate 6	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_7	K-factor/MF 7	DOUBLE	≥ 0.000001	1		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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FACTOR_7_FLOW	Frequency/Flowrate 7	DOUBLE	≥ 0	0		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_8	K-factor/MF 8	DOUBLE	≥ 0.000001	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_8_FLOW	Frequency/Flowrate 8	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_9	K-factor/MF 9	DOUBLE	≥ 0.000001	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_9_FLOW	Frequency/Flowrate 9	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_10	K-factor/MF 10	DOUBLE	≥ 0.000001	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_10_FLOW	Frequency/Flowrate 10	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	▪ Log Changes ▪ Legal



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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FACTOR_11	K-factor/MF 11	DOUBLE	≥ 0.000001	1		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_11_FLOW	Frequency/Flowrate 11	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_12	K-factor/MF 12	DOUBLE	≥ 0.000001	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_12_FLOW	Frequency/Flowrate 12	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_13	K-factor/MF 13	DOUBLE	≥ 0.000001	1	RESERVED	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_13_FLOW	Frequency/Flowrate 13	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_14	K-factor/MF 14	DOUBLE	≥ 0.000001	1		R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	▪ Log Changes ▪ Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FACTOR_14_FLOW	Frequency/Flowrate 14	DOUBLE	≥ 0	0		<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_15	K-factor/MF 15	DOUBLE	≥ 0.000001	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_15_FLOW	Frequency/Flowrate 15	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_16	K-factor/MF 16	DOUBLE	≥ 0.000001	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_16_FLOW	Frequency/Flowrate 16	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_17	K-factor/MF 17	DOUBLE	≥ 0.000001	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FACTOR_17_FLOW	Frequency/Flowrate 17	DOUBLE	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FACTOR_18	K-factor/MF 18	DOUBLE	≥ 0.000001	1		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_18_FLOW	Frequency/Flowrate 18	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_19	K-factor/MF 19	DOUBLE	≥ 0.000001	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_19_FLOW	Frequency/Flowrate 19	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_20	K-factor/MF 20	DOUBLE	≥ 0.000001	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
FACTOR_20_FLOW	Frequency/Flowrate 20	DOUBLE	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	▪ Log Changes ▪ Legal
MASS_CORR_PF_OPT	Mass Pressure Effect Option 0 - Disable 1 - Enable	ENUM16	0 → 1	Disable (0)	Enable/Disable Selection (30)	R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	▪ Log Changes ▪ Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
PCAL	Calibration Pressure	DOUBLE		0	psi(g) (29-0)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MASS_CORR_PF_COEFF	Mass Pressure Effect	DOUBLE	≤ 0	-0.0002	%/psi (247-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CTLO_PARAM	CTL Observed to Base Parameter	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CTLO_OVRD	Override CTL Observed to Base	DOUBLE		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CTLO_CALC	Calculated CTL Observed to Base	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.3.0.XXX	Legal
CTLO_UMODE	CTL Observed to Base Mode 0 – External 1 – Override 2 – Calculated	ENUM16	0 → 2	2	User Mode Selection 6 (321)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CTLO_SEL	Selected CTL Observed to Base	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.3.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CPLO_PARAM	CPL Observed to Base Parameter	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CPLO_OVRD	Override CPL Observed to Base	DOUBLE		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CPLO_CALC	Calculated CPL Observed to Base	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.3.0.XXX	Legal
CPLO_UMODE	CPL Observed to Base Mode 0 – External 1 – Override 2 – Calculated	ENUM16	0→2	2	User Mode Selection 6 (321)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CPLO_SEL	Selectd CPL Observed to Base	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.3.0.XXX	Legal
CTLM_PARAM	CTL Base to Meter Parameter	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CTLM_OVRD	Override CTL Base to Meter	DOUBLE		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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CTLM_CALC	Calculated CTL Base to Meter	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.3.0.XXX	Legal
CTLM_UMODE	CTL Based to Meter Mode 0 = External 1 – Override 2 – Calculated	ENUM16	0-2	2	User Mode Selection 6 (321)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CTLM_SEL	Selected CTL Base to Meter	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.3.0.XXX	Legal
CPLM_PARAM	CPL Base to Meter Parameter	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CPLM_OVRD	Override CPL Base to Meter	DOUBLE		0		<b>R/W:</b> Admin; Engineer; Meas. Tech; <b>R/O:</b> Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CPLM_CALC	Calculated CPL Base to Meter	DOUBLE		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.3.0.XXX	Legal
CPLM_UMODE	CPL Base to Meter Mode 0 - External 1 – Override 2 - Calculated	ENUM16	0 → 2	2	User Mode Selection 6 (321)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CPLM_SEL	Selected CPL Base to Meter	DOUBLE		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.3.0.XXX	Legal
CTL_INUSE	CTL In Use	DOUBLE		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.3.0.XXX	Legal
CPL_INUSE	CPL In Use	DOUBLE		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.3.0.XXX	Legal
CCF_INUSE	CCF In Use	DOUBLE		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.3.0.XXX	Legal
CSW_INUSE	Sediment & Water Correction Factor In Use	DOUBLE		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.3.0.XXX	Legal
GSVOL_RATE	Gross Standard Volume Flow Rate	DOUBLE		0	bbl/d (298-35)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.3.0.XXX	Legal
MASS_RATE	Mass Flow Rate	DOUBLE		0	Mlb/d (13-7)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.3.0.XXX	Legal
GSVOL_RAW_TOT	Gross Standard Volume Total	DOUBLE		0	bbl (296-8)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.3.0.XXX	Legal

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MASS_RAW_TOT	Mass Total	DOUBLE		0	Mlb (10-2)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor		Legal
GSVOL_TOT_OBJ	Gross Standard Volume Total Object	ObjectRef		Varies by instance		R/O: Admin; Engineer; Meas. Tech Operator; Auditor		Legal
MASS_TOT_OBJ	Mass Total Object	ObjectRef		Varies by instance		R/O: Admin; Engineer; Meas. Tech Operator; Auditor		Legal
FLWTM_RAW_TOT	Flow Time Total	DOUBLE		0	Seconds (359-0)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor		Legal
FLWTM_TOT_OBJ	Flow Time Total Object	ObjectRef		Varies by instance		R/O: Admin; Engineer; Meas. Tech Operator; Auditor		Legal
CTPL_INUSE	CTPL In Use	DOUBLE		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor		Legal
MF_INUSE	Meter Factor In Use	DOUBLE		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.5.0.X	Legal
PF_INUSE_G	Flowing Pressure In Use (Gauge)	DOUBLE			psi(g) (29-0)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.7.X.XXX	Legal



Liq LinMtr								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FLOW_INPUT_OPT	Flow Input Option 0 – Flow Input 1 – External Accumulator 2 – External Accumulator with Flow Rate	ENUM16	0-2	Flow Input (0)	Flow Input Option (358)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.9.0.XXX	Log Changes Legal
ACCUM_PARAM	External Accumulator Parameter	PRMREF				<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.9.0.XXX	Log Changes Legal
ACCUM_CURRENT	External Accumulator Value	DOUBLE			bbl (296-8)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.9.0.XXX	Legal
ACCUM_ROLLOVER	External Accumulator Rollover	DOUBLE			bbl (296-8)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.9.0.XXX	Log Changes Legal
MAX_IQ_RATE	Maximum Indicated Quantity Flow Rate	DOUBLE			bbl/d (298-35)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.9.0.XXX	Log Changes Legal
TRANSHGRP_OBJ	Transactional History Group	OBJREF		Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.12.0.XXX	Log Changes Legal
PREV_BATCH_START_TM	Previous Batch Start Time	TIME				<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.12.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
PREV_BATCH_END_TM	Previous Batch End Time	TIME				R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.12.0.XXX	Legal
CUR_BATCH_START_TM	Current Batch Start Time	TIME				R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.12.0.XXX	Legal
CUR_BATCH_NUM	Current Batch Number	UINT32				R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.12.0.XXX	Legal
PREV_BATCH_NUM	Previous Batch Number	UINT32				R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.12.0.XXX	Legal
OP_STATUS	Operation Status	BIN32			Meter Status (330)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.12.0.XXX	Legal
CUR_DAY_START_TM	Current Day Start Time	TIME				R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.13.0.XXX	Legal
PREV_DAY_START_TM	Previous Day Start Time	TIME				R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.13.0.XXX	Legal
CUR_MNTH_START_TM	Current Month Start Time	TIME				R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.13.0.XXX	Legal

Liq LinMtr								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
PREV_MNTH_START_TM	Previous Month Start Time	TIME				<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.13.0.XXX	Legal
BATCH_END_CMD	Batch End Command	ENUM16	0 -> 1	0	End Batch Command (363)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.13.0.XXX	Legal
BATCH_END_PARAM	Batch Start Parameter	PRMREF		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.13.0.XXX	Legal
CUR_PER_START_TM	Current Hour Start Time	TIME				<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.13.0.XXX	Legal
PREV_PER_START_TM	Previous Hour Start Time	TIME				<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.13.0.XXX	Legal
CUR_WK_START_TM	Current Week Start Time	TIME				<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.13.0.XXX	Legal
PREV_WK_START_TM	Previous Week Start Time	TIME				<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.13.0.XXX	Legal

## 5.42 Liq Prod Parameters

**Description:** The Liq Prod object provides the parameters for configuring liquid products.

**Number of Instances:** 36 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-41: Liq Prod Parameters**

Liq Prod								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "Liq Prod_X" (where X is instance number between 1 and 36)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.3.0.XXX	
DESC	Description	UC20		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Liq Prod								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
LIQ_TYPE	Product Type	ENUM16	0→0	0 (Crude Oil)	Product Type (322)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
API11_METHOD	API Ch 11 Volume Correction Method	ENUM16	0→0	0 (2004/2007)	API Ch 11 Volume Correction Method (324)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DENSB	Base Density	DOUBLE	Min = -50	30	°API (294-8)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DENSB_UNITS_TB	Base Density Units & Temperature 11 - kg/m³@60°F 12 - kg/m³@15°C 13 - kg/m³@20°C 14 - kg/m³@30°C 15 - kg/m³@0°C 22 - g/cc@15°C 23 - g/cc@20°C 24 - g/cc@30°C 25 - g/cc@0°C 71 - RD@60°F 72 - RD@15°C 73 - RD@20°C 74 - RD@30°C	Enum16	11→81	°API@60°F (81)	Base Density Units & Temperature (351)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.5.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Liq Prod								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	75 - RD@0°C							
	81 - °API@60°F							

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## 5.43 Local Parameters

**Description:** The Local object provides the parameters for configuring localization profiles.

**Number of Instances:** 3 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-42: Local Parameters**

Local								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: 1-Local_1 2-Local_2 3-Local_3		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
LANGUAGE	Language 0 - English	ENUM16	0→0	English (0)	Language Selection (37)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Local								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TM_DSP_PREF	Time Display Format Pref 0 - 12 Hour 1 - 24 Hour	ENUM16	0→8	12 Hour (0)	Time Format Selection (36)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DT_DSP_PREF	Date Display Format Pref 0 - MM/DD/YY 1 - MM/DD/YYYY 2 - DD/MM/YY 3 - DD/MM/YYYY 4 - YYYY/MM/DD 5 - YY/MM/DD	ENUM16	0→8	MM/DD/YY (0)	Date Format Selection (35)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>



## 5.44 Log Parameters

**Description:** The Log object provides the parameters for configuring and viewing logs.

**Number of Instances:** 106 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-43: Log Parameters**

Log								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "Log_X" (where X is instance number between 1 and 106)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Instance: 1=Log Changes & Legal 2=Log Changes 3=Log Changes & Legal 4-6=Log Changes 7-106=Log Changes & Legal
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20		Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Instance: 1=Log Changes & Legal 2=Log Changes 3=Log Changes & Legal 4-6=Log Changes

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Log								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
LOG_TYPE	Type of Log 0 - Undefined 1 - Legal Event 2 - Non Legal Event 3 - Legal Alarm 4 - Non Legal Alarm 5 - Legal History 6 - Non Legal History	ENUM16		Instance: 1 - Legal Event (1) 2 - Non Legal Event (2) 3 - Legal Alarm (3) <b>4 - Undefined (0)</b> 5-10= Non Legal History (6) 11-106= Legal History (5)	Log Type (156)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	7-106=Log Changes & Legal Instance: 1=Legal 2=Undefined 3=Legal 4-6=Undefined 7-106=Legal
LOG_ENB	Logging 0 - Disable 1 - Enable	ENUM16	0→1	Instance: 1-3 =Enable (1) 4=Disable (0) 5-106=Enable (1)	Enable/Disable Selection (30)	For instances 1-4: <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor  For instances 5-106: <b>R/W</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Admin; Engineer; Operator; Auditor:	2.0.0.XXX	Instance: 1=Legal 2=Undefined 3=Legal 4-6=Undefined 7-106=Log Changes, Legal
HIST_GRP_OBJ	History Group	ObjectRef	Hist Grp	Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Instance: 1=Legal 2=Undefined 3=Legal 4-6=Undefined 7-106=Legal
LAST_READ_SEQ	Sequence Number Last Read Record	UINT32		0		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	Instance: 1=Legal 2=Undefined 3=Legal

Log								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FULL_LIM	Log Full Remaining Records	UINT16	Varies by instance	Varies by instance		<b>R/O:</b> Operator; Auditor  <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	4-6=Undefined 7-106=Legal Instance: 1=Log Changes & Legal 2=Log Changes 3=Log Changes & Legal 4-6=Log Changes 7-106=Log Changes & Legal
NEAR_LIM	Log Nearly Full Remaining Records	UINT16	Varies by instance	Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Instance: 1=Log Changes & Legal 2=Log Changes 3=Log Changes & Legal 4-6=Log Changes 7-106=Log Changes & Legal
LOG_ALM	Log Full Alarm Status	BIN32		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Instance: 1=Legal 2=Undefined 3=Legal 4-6=Undefined 7-106=Legal
LOG_BUSY	Log Busy 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Instance: 1=Legal 2=Undefined 3=Legal 4-6=Undefined 7-106=Legal
NUM_LOST_RECORDS	Num Of Lost Records	UINT32		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Instance: 1=Legal 2=Undefined 3=Legal 4-6=Undefined 7-106=Legal

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Log								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
LATEST_SEQ_NUM	Latest Sequence Number	UINT32		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.14.0.XX	Instance: 1=Legal 2=Undefined 3=Legal 4-6=Undefined 7-106=Legal

## 5.45 MapTable Parameters

**Description:** The MapTable object provides the parameters for configuring Modbus map tables.

**Number of Instances:** 48 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-44: MapTable Parameters**

Map Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Register Table		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>N/A:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>N/A:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech <b>N/A:</b> Operator; Auditor	2.0.0.XXX	
TABLE_NO	Table Number / Register Mapping	UINT8		Instance: "1_X" (where X is instance number between 1 and 48)		<b>R/O:</b> Admin; Engineer; Meas. Tech <b>N/A:</b> Operator; Auditor	2.0.0.XXX	
REG_TABLE_TAG	Reg Table Identification Tag	UC20		Instance: "Reg Map_X" (where X is instance		<b>R/O:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	Log Changes

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Map Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
				number between 1 and 48)		<b>N/A:</b> Operator; Auditor		
START_REG_1	Starting Register 1	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
END_REG_1	Ending Register 1	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
START_PARAM_1	Starting Parameter 1	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
INDEXING_1	Point/Param Index Option 1 0 - Point 1 - Parameter	ENUM16	0→1	Point (0)	Indexing Used (160)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
REM_DTYPE_1	Remote Data Type 1 Refer to <i>Section 5.1 – Measurement Types</i>	ENUM16	0→50	No Conversion (0)	Remote Data Types (66)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes

Map Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
START_REG_2	Starting Register 2	UINT16	0→65535	0		<b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
END_REG_2	Ending Register 2	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
START_PARAM_2	Starting Parameter 2	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
INDEXING_2	Point/Param Index Option 2 0 - Point 1 - Parameter	ENUM16	0→1	Point (0)	Indexing Used (160)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
REM_DTYPE_2	Remote Data Type 2 See REM_DTYPE_1	ENUM16	0→50	No Conversion (0)	Remote Data Types (66)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes

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Map Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
START_REG_3	Starting Register 3	UINT16	0→ 65535	0		<b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
END_REG_3	Ending Register 3	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
START_PARAM_3	Starting Parameter 3	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
INDEXING_3	Point/Param Index Option 3 0 - Point 1 - Parameter	ENUM16	0→1	Point (0)	Indexing Used (160)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
REM_DTYPE_3	Remote Data Type 3 See REM_DTYPE_1	ENUM16	0→50	No Conversion (0)	Remote Data Types (66)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes



Map Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
START_REG_4	Starting Register 4	UINT16	0→ 65535	0		<b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
END_REG_4	Ending Register 4	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
START_PARAM_4	Starting Parameter 4	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
INDEXING_4	Point/Param Index Option 4 0 - Point 1 - Parameter	ENUM16	0→1	Point (0)	Indexing Used (160)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
REM_DTYPE_4	Remote Data Type 4 See REM_DTYPE_1	ENUM16	0→50	No Conversion (0)	Remote Data Types (66)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes

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Map Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
START_REG_5	Starting Register 5	UINT16	0→ 65535	0		<b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
END_REG_5	Ending Register 5	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
START_PARAM_5	Starting Parameter 5	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
INDEXING_5	Point/Param Index Option 5 0 - Point 1 - Parameter	ENUM16	0→1	Point (0)	Indexing Used (160)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
REM_DTYPE_5	Remote Data Type 5 See REM_DTYPE_1	ENUM16	0→50	No Conversion (0)	Remote Data Types (66)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes

Map Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
START_REG_6	Starting Register 6	UINT16	0→ 65535	0		<b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
END_REG_6	Ending Register 6	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
START_PARAM_6	Starting Parameter 6	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
INDEXING_6	Point/Param Index Option 6 0 - Point 1 - Parameter	ENUM16	0→1	Point (0)	Indexing Used (160)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
REM_DTYPE_6	Remote Data Type 6 See REM_DTYPE_1	ENUM16	0→50	No Conversion (0)	Remote Data Types (66)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes

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Map Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
START_REG_7	Starting Register 7	UINT16	0→ 65535	0		<b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
END_REG_7	Ending Register 7	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
START_PARAM_7	Starting Parameter 7	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
INDEXING_7	Point/Param Index Option 7 0 - Point 1 - Parameter	ENUM16	0→1	Point (0)	Indexing Used (160)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
REM_DTYPE_7	Remote Data Type 7 See REM_DTYPE_1	ENUM16	0→50	No Conversion (0)	Remote Data Types (66)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes

Map Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
START_REG_8	Starting Register 8	UINT16	0→ 65535	0		<b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
END_REG_8	Ending Register 8	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
START_PARAM_8	Starting Parameter 8	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
INDEXING_8	Point/Param Index Option 8 0 - Point 1 - Parameter	ENUM16	0→1	Point (0)	Indexing Used (160)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
REM_DTYPE_8	Remote Data Type 8 See REM_DTYPE_1	ENUM16	0→50	No Conversion (0)	Remote Data Types (66)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes

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Map Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
START_REG_9	Starting Register 9	UINT16	0→ 65535	0		<b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
END_REG_9	Ending Register 9	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
START_PARAM_9	Starting Parameter 9	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
INDEXING_9	Point/Param Index Option 9 0 - Point 1 - Parameter	ENUM16	0→1	Point (0)	Indexing Used (160)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
REM_DTYPE_9	Remote Data Type 9 See REM_DTYPE_1	ENUM16	0→50	No Conversion (0)	Remote Data Types (66)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes

Map Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
START_REG_10	Starting Register 10	UINT16	0→65535	0		<b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
END_REG_10	Ending Register 10	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
START_PARAM_10	Starting Parameter 10	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
INDEXING_10	Point/Param Index Option 10 0 - Point 1 - Parameter	ENUM16	0→1	Point (0)	Indexing Used (160)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
REM_DTYPE_10	Remote Data Type 10 See REM_DTYPE_1	ENUM16	0→50	No Conversion (0)	Remote Data Types (66)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes

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Map Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
START_REG_11	Starting Register 11	UINT16	0→ 65535	0		<b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
END_REG_11	Ending Register 11	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
START_PARAM_11	Starting Parameter 11	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
INDEXING_11	Point/Param Index Option 11 0 - Point 1 - Parameter	ENUM16	0→1	Point (0)	Indexing Used (160)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
REM_DTYPE_11	Remote Data Type 11 See REM_DTYPE_1	ENUM16	0→50	No Conversion (0)	Remote Data Types (66)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes



Map Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
START_REG_12	Starting Register 12	UINT16	0→ 65535	0		<b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
END_REG_12	Ending Register 12	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
START_PARAM_12	Starting Parameter 12	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
INDEXING_12	Point/Param Index Option 12 0 - Point 1 - Parameter	ENUM16	0→1	Point (0)	Indexing Used (160)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
REM_DTYPE_12	Remote Data Type 12 See REM_DTYPE_1	ENUM16	0→50	No Conversion (0)	Remote Data Types (66)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes

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Map Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
START_REG_13	Starting Register 13	UINT16	0→ 65535	0		<b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
END_REG_13	Ending Register 13	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
START_PARAM_13	Starting Parameter 13	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
INDEXING_13	Point/Param Index Option 13 0 - Point 1 - Parameter	ENUM16	0→1	Point (0)	Indexing Used (160)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
REM_DTYPE_13	Remote Data Type 13 See REM_DTYPE_1	ENUM16	0→50	No Conversion (0)	Remote Data Types (66)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes

Map Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
START_REG_14	Starting Register 14	UINT16	0→65535	0		<b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
END_REG_14	Ending Register 14	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
START_PARAM_14	Starting Parameter 14	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
INDEXING_14	Point/Param Index Option 14 0 - Point 1 - Parameter	ENUM16	0→1	Point (0)	Indexing Used (160)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
REM_DTYPE_14	Remote Data Type 14 See REM_DTYPE_1	ENUM16	0→50	No Conversion (0)	Remote Data Types (66)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes

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Map Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
START_REG_15	Starting Register 15	UINT16	0→ 65535	0		<b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
END_REG_15	Ending Register 15	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
START_PARAM_15	Starting Parameter 15	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
INDEXING_15	Point/Param Index Option 15 0 - Point 1 - Parameter	ENUM16	0→1	Point (0)	Indexing Used (160)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes

**Map Table**

Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
REM_DTYPE_15	Remote Data Type 15 See REM_DTYPE_1	ENUM16	0→50	No Conversion (0)	Remote Data Types (66)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes

## 5.46 MasterConf Parameters

**Description:** The MasterConf object provides the parameters for Modbus master configuration.

**Number of Instances:** 6 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-45: MasterConf Parameters**

MasterConf								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Master Config		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>N/A:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>N/A:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech <b>N/A:</b> Operator; Auditor	2.0.0.XXX	
COMM_PORT_TYPE	Comm Port Type	UC20		Instance: 1-Serial Port 1 2-Serial Port 2 3-Serial Port 3 4-Serial Port 4		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator	2.0.0.XXX	

MasterConf								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
				5-Ethernet Port 1 6-Ethernet Port 2		<b>N/A:</b> Auditor		
COMM_PORT_NUM	Comm Port Number 0 - Serial Port 1 1 - Serial Port 2 2 - Serial Port 3 3 - Serial Port 4 4 - Ethernet Port 1 5 - Ethernet Port 2	ENUM16		Instance: 1 - Serial Port 1 (0) 2 - Serial Port 2 (1) 3 - Serial Port 3 (2) 4 - Serial Port 4 (3) 5 - Ethernet Port 1 (4) 6 - Ethernet Port 2 (5)	Comm Port Instance (302)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
MASTER_COMM_MODE	Modbus Transmission Mode 0 - ASCII 1 - RTU 2 - TCP	ENUM16	Instance : 1 - 0→1 2 - 0→1 3 - 0→1 4 - 0→1 5 - 0→2 6 - 0→2	Instance: 1 - RTU (1) 2 - RTU (1) 3 - RTU (1) 4 - RTU (1) 5 - TCP (2) 6 - TCP (2)	Modbus Mode Selection (60)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
MASTER_BYTE_ORD	Byte Order 0 - LSB 1 - MSB	ENUM16	0→	LSB (0)	Modbus Byte Order Selection (61)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
START_POLL	Start Modbus Poll 0 - Cancel 1 - Start	ENUM16	0→1	Cancel (0)	Start Poll (158)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b>	2.0.0.XXX	

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MasterConf								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
START_REQ_NUM	Starting Request Number	UINT8	1→150	1		Operator <b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	
NUM_REQ	Number of Requests	UINT8	0→150	0		Operator <b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RX_TIMEOUT	Receive Timeout	UINT16	1→300	30	s (17-0)	Operator <b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RETRIES_NUM	Number of Retries	UINT8	0→255	2		Operator <b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes



MasterConf								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CONT_POLL	Enable Continuous Polling 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
REQ_DELAY	Delay Between Individual Requests	FLOAT	0→86400	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
POLL_DELAY	Delay after a Single Sequence of Polls	UINT32	0→86400	1	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
TCP_CONN_TIMEOUT	TCP Connection Timeout	UINT16	1→75	3	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes

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MasterConf								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
MASTER_TCP_ENABLE	Enable TCP for Modbus Master 0 - Disable 1 - Enable	ENUM16	0→1	Enable (1)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
ACTUAL_POLL_TIME	Actual Poll Time	FLOAT			s (17-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.5.1.XXX	

## 5.47 Math Blk Parameters

**Description:** The Math Blk (Block) object provides the parameters for configuring mathematical equations using live variables from the system as inputs.

**Number of Instances:** Between 0 and 100 instances may exist; by default, 12 exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-46: Math Blk Parameters**

Math Blk								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "Math Blk_X" (where X is instance number between 1 and 100)		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>RO:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20		Instance: "Math Blk_X" (where X is instance number between 1 and 100)		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes

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Math Blk								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
MATH_ENABLE	Enable Switch 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
INPUT_VAR_A_DESC	Var A Description	UC20		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
INPUT_VAR_A_POINT	Var A Param Ref	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
INPUT_VAR_A_VAL	Variable A Value	DOUBLE		0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	
INPUT_VAR_B_DESC	Var B Description	UC20		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
INPUT_VAR_B_POINT	Var B Param Ref	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
INPUT_VAR_B_VAL	Variable B Value	DOUBLE		0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	

Math Blk								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
INPUT_VAR_C_DESC	Var C Description	UC20		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
INPUT_VAR_C_POINT	Var C Param Ref	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
INPUT_VAR_C_VAL	Variable C Value	DOUBLE		0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	
INPUT_VAR_D_DESC	Var D Desc	UC20		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
INPUT_VAR_D_POINT	Var D Param Ref	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
INPUT_VAR_D_VAL	Variable D Value	DOUBLE		0		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	
R1_EQUATION	R1 Math Equation	UC40		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes

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Math Blk								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
R1_VALIDATE	R1 Validity Check 0 - Invalid 1 - Valid	ENUM16		Invalid (0)	Math Block Equation State (174)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
R2_EQUATION	R2 Math Equation	UC40		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
R2_VALIDATE	R2 Validity Check 0 - Invalid 1 - Valid	ENUM16		Invalid (0)	Math Block Equation State (174)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
R3_EQUATION	R3 Math Equation	UC40		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
R3_VALIDATE	R3 Validity Check 0 - Invalid 1 - Valid	ENUM16		Invalid (0)	Math Block Equation State (174)	<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
R1_VALUE	Result 1 Value	DOUBLE		0		<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
R1_DESC	Result 1 Description	UC20		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes

Math Blk								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
R1_OUTPUT_POINT	Result 1 Param Ref	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
R2_VALUE	Result 2 Value	DOUBLE		0		<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
R2_DESC	Result 2 Description	UC20		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor		Log Changes
R2_OUTPUT_POINT	Result 2 Param Ref	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
R3_VALUE	Result 3 Value	DOUBLE		0		<b>R/O:</b> Admin; Engineer Meas. Tech; Operator; Auditor	2.0.0.XXX	
R3_DESC	Result 3 Description	UC20		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
R3_OUTPUT_POINT	Result 3 Param Ref	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer <b>R/O:</b> Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes

## 5.48 Module Parameters

**Description:** The Module object provides the parameters that contain information on each of the hardware modules that make up the system.

**Number of Instances:** 32 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-47: Module Parameters**

Module									
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes	
OBJ_NAME	Tag	UC20		Instance: "Module_X" (where X is instance number between 1 and 32)		<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>	
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes	
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX		



Module								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DESC	Description	UC20		Undefined		<b>R/W:</b> Admin  <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
INSTALLED	Installed 0 - No 1 - Yes	ENUM16	0→1	No (0)	Yes/No Option (208)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
MOD_MODE	Module Mode 0 - Not Installed 1 - Boot 2 - Normal 3 - Not Licensed 4 - Communication Failure 5 - Module Failure 6 - Power Off 7 - Termination Missing	ENUM16		Not Installed (0)	Module Mode (143)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
MOD_TYPE	Module Type 0 - Unknown 1 - HMI 2 - On-Board I/O 3 - Optional I/O 4 - Expanded I/O 5 - I/O Cards 254 - I/O Scan CPU 255 - Main CPU	ENUM16		Unknown (0)	Module Type (209)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

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Module								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SUBTYPE	Module Subtype 0 - None 1 - 8AIDIPI 2AO 2DO	ENUM16		None (0)	Module Subtype (210)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
HW_SER_NUM	Serial Number	UC30		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
HW_TEST_DATE	Hardware Test Date	Time		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
APP_DESC	Firmware Description	UC20		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
APP_SER_NUM	Firmware Serial Number	UC30		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
APP_PART_NUM	Firmware Part Number	UC20		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

Module								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
APP_VER	Firmware Version	UC20		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
APP_DATE	Firmware Creation Date	Time		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
BOOT_PART_NUM	Boot Part Number	UC20		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
BOOT_VER	Boot Version	UC20		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
BOOT_DATE	Boot Creation Date	Time		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
CFG_OPT_1	Configuration Option 1 0 - Not Applicable	ENUM16		Not Applicable (0)	Option Not Applicable (211)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

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Module								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CFG_OPT_2	Configuration Option 2 0 - Not Applicable	ENUM16		Not Applicable (0)	Option Not Applicable (211)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
CFG_STR_1	Configuration String 1	UC40		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
CFG_STR_2	Configuration String 2	UC40		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
CFG_STR_3	Configuration String 3	UC40		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SET_UINT64_1	UINT64 Setting 1	UInt64		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Instance: 1=Legal 2=Log Changes & Legal 3-5=Legal
SET_ENUM16_1	ENUM16 Setting 1 0 - Not Applicable	ENUM16		Not Applicable (0)	Option Not Applicable (211)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b>	2.0.0.XXX	Instance: 1-4=Legal 5=Log Changes & Legal

Module								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
IFS_PART_NUM	IFS Part Number	UC20		Undefined		Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
IFS_VER	IFS Version	UC20		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
IFS_DATE	IFS Creation Date	Time		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
PM_STATUS	Personality Module Status 0 - Module inserted and valid 1 - Module not present 2 - Module not valid for I/O module 3 - Module not calibrated 4 - Module EEPROM data corrupted	BIN16		Module inserted and valid	Personality Module Status (288)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
PM_TYPE	Personality Module Type 0 - Invalid personality board type 1 - CPU Personality Module 2 - CPU PM with WIFI	ENUM16		Invalid personality board type (0)	Personality Module Type (289)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

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Module								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	3-9: Undefined 10 - 12 point mixed I/O PM 11 - 10 point DI/DO PM 12 - 8 point AI/DI/PI PM 13 - 8 point AO/DO PM							
PM_SER_NUM	Personality Module Serial Number	UC30		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
PM_CAL_DATE	Personality Module Calibration Date	TIME		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
FPGA_VERSION	FPGA Program Version	UC10		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

## 5.49 Mtr Setup Parameters

**Description:** The Mtr Setup object provides the parameters for configuring general meter run parameters.

**Number of Instances:** 1 instance may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-48: Mtr Setup Parameters**

Mtr Setup								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Mtr Setup_1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20		Meter Setup		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MAX_MTRS	Maximum Meters	UINT8		1		<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

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Mtr Setup								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
NGAS_CALCS	Natural Gas Calculations Availability 0 - Not Available 1 - Available	ENUM16	0→1	Not Available (0)	Calc Availability (307)	Meas. Tech Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
NUM_DPMTRS	Number of Gas DP Meters	UINT8		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NUM_LINMTRS	Number of Gas Linear Meters	UINT8		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LIQ_CALCS	Liquid Calculations Availability (replaced ALOC CALCS) 0 - Not Available 1 - Available	ENUM16	0→1	Not Available (0)	Calc Availability (307)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.3.0.XXX	Legal
NUM_LIQ_LMTRS	Number of Liquid Linear Meters						2.3.0.XXX	
LOG_BRK_OPT	QTR Log Break Option 0 - Disabled 1 - Hourly Only 2 - All Standard Periodic Logs	ENUM16	0→2	Disabled (0)	QTR Log Break Options (119)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
AVG_METHOD	Meter Averaging Method 0 - Flow Dependent Linear 1 - Flow Dependent Formulaic 2 - Flow Weighted Linear 3 - Flow Weighted Formulaic	ENUM16	0→3	Flow Dependent Linear (0)	Meter Averaging Method (185)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>



Mtr Setup								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
BUSY_STATUS	Busy Status 0 - Idle 1 - Busy	ENUM16	0→1	Idle (0)	Busy Status (287)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
LIQ_CALCS		ENUM16	0->1	Not Available (0)	Calc Availability (307)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.7.0.XXX	Legal
NUM_LIQLMTRS		UINT8				<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.7.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NUM_SPARETOTS	Number of Spare Totals	UINT16	0->144			<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.9.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

## 5.50 PI Parameters

**Description:** The PI object provides the parameters for configuring pulse inputs.

**Number of Instances:** 248 instances may exist (8 per MIO module).

**Storage Location:** Saved to internal configuration memory.

**Table 5-49: PI Parameters**

PI								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
MOD_LOC	Module Location	UINT8		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CHANNEL	Channel	UINT8		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

<b>PI</b>								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DESC	Description	UC20		Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SCAN_PERIOD	PI Scan Period	FLOAT	1→ 86400	1	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LOGIC_LEVEL	Logic Level 0 - 66 microamps 1 - 2 milliamps	ENUM16	0→1	66 microamps (0)	Logic Level (133)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FILTER	Filter Mode 0 - Low Speed Filter 1 - Medium Speed Filter 2 - High Speed Filter	ENUM16	0→2	High Speed Filter (2)	PI Filter Mode (286)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
USER_MODE	Operation Mode 0 - Live 1 - Override	ENUM16	0→1	Live (0)	User Selection (31)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ACTUAL_MODE	Actual Mode 0 - Live 1 - Auto 2 - Auto Read 3 - Override 4 - Calibration 5 - Fault 6 - Last Good 7 - Last Hour Average 8 - Ramp to Fault Value	ENUM16		Live (0)	Actual Mode (125)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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PI								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	9 - Ramp to Last Hour Avg 10 - Polling Disabled							
UNITS	Units 0 - ft <sup>3</sup> 1 - m <sup>3</sup> 2 - MCF 3 - (k)m <sup>3</sup> 4 - MMCF 5 - BCF 6 - L 7 - US gal 8 - bbl	ENUM16	0→8	ft <sup>3</sup> (0)	Volume Total (9)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
UNITS_TYPE	Unit Enumeration Selection 0 - Unitless 9 - Volume Total 10 - Mass Total 24 - Frequency 296 - Liquid Volume Total 297 - Water Volume Total	ENUM16	0→297	Volume Total (9)	PI Units Type (180)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
CONV_FACTOR	Conversion Factor	FLOAT	≥ 0.001	1	Pulses/EU (139-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
CONTRACT_HR	Contract Hour	UINT8	0→23	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
LIVE_FREQ	Live Frequency	FLOAT		0	Hz (24-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
OVRD_FREQ	Override Frequency	FLOAT	≥ 0	0	Hz (24-0)	<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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<b>PI</b>								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SELECTED_FREQ	Selected Frequency	FLOAT		0	Hz (24-0)	Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
PERIOD	Period	FLOAT		0	s (17-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
RATE_PERIOD	Rate Period 0 - Seconds 1 - Minutes 2 - Hours 3 - Days	ENUM16	0→3	Seconds (0)	PI Rate Period (140)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
RATE	Rate	FLOAT		0	ft <sup>3</sup> /s (12-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
PULSE_ACCUM	Accumulated Pulses	UINT32		0	Pulses (141-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
PULSE_DAY_ACCU M_32	Today's Accumulated Pulses (32-bit)	UINT32		0	Pulses (141-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
PULSE_DAY_ACCU M_64	Today's Accumulated Pulses (64-bit)	UInt64		0	Pulses (141-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
TODAYS_TOTAL	Today's Total	DOUBLE		0	ft <sup>3</sup> (9-0)	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	

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PI								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
YESTERDAYS_TOTAL	Yesterday's Total	DOUBLE		0	ft <sup>3</sup> (9-0)	Meas. Tech Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
RESET_TOTAL_COUNTS	Reset the PI Counts 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> <li>▪ Verified</li> </ul>
URL	Upper Range Limit	FLOAT		0	Hz (24-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
LRL	Lower Range Limit	FLOAT		0	Hz (24-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
MONITOR_MAX	Monitor Maximum	FLOAT		10000	Hz (24-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
MONITOR_MIN	Monitor Minimum	FLOAT		0	Hz (24-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FREQ_ALM_OBJ	Frequency Alarm Reference	ObjectRef		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
INPUT_STATUS	Input Health Status 0 - Normal	BIN16		Normal	PI Status (142)	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

PI								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	1 - Not Licensed 2 - Instance Inactive 3 - Comm Fail 4 - Override Active 5 - In Alarm 6 - Point Fail 7 - Above URL 8 - Below LRL 9 - Termination Missing 10 - Hardware Fail							Meas. Tech Operator; Auditor
RESISTOR_TYPE	Pull up or Pull down Resistor type 0 - Pull Up 1 - Pull Down	ENUM16	0→1	Pull Up (0)	DI/PI Resistor Selection (276)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
RST_PULSE_ACCUM	Resetable Accumulated Pulses	UINT32			Pulses (141)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.12.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

## 5.51 PID Parameters

**Description:** The PID object provides the parameters for configuring Proportional, Integral, and Derivative control loops.

**Number of Instances:** Between 0 and 100 instances may exist; by default, 24 exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-50: PID Parameters**

PID								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "PID Loop_X" (where X is instance number between 1 and 100)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20		Instance: "PID Loop_X" (where X is instance number between 1 and 100)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes



PID								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
PID_LOOP_TYPE	PID Loop Type 0 - Primary Only 1 - Override Only 2 - Dual Control	ENUM16	0→2	Primary Only (0)	PID Control Type (112)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
PID_ENABLE	Enable Switch 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
LOOP_PERIOD	Loop Period	FLOAT	1→ 3600	1	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
P_PV_POINT	Primary Process Variable Input	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
P_PROCESS_VARIABLE	Primary Process Variable Value	FLOAT		0		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
P_PV_HIGH_LIMIT	Primary Process Variable High Limit	FLOAT	≥ 0	10000		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
P_PV_LOW_LIMIT	Primary Process Variable Low Limit	FLOAT	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

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PID								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
P_CONTROL_ACTION	Primary Control Action Direction 0 - Forward 1 - Reverse	ENUM16	0→1	Reverse (1)	PID Control Action (114)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
P_SETPOINT_TRACK_EN	Primary Setpoint Tracking 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
P_SETPOINT_POINT	Primary Setpoint Input	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
P_SETPOINT	Primary Setpoint Value	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech; Operator <b>R/O:</b> Auditor	2.0.0.XXX	Log Changes
P_SETPOINT_RAMP	Primary Setpoint Ramp Rate Per Second	FLOAT	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
P_PROPORTIONAL_G	Primary Proportional Gain	FLOAT	≥ 0	0.5		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
P_INTEGRAL_GAIN	Primary Integral Gain	FLOAT	≥ 0	4		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	Log Changes

PID								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
P_DERIVATIVE_GAIN	Primary Derivative Gain	FLOAT	≥ 0	0		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
P_CHANGE_IN_OUTPUT	Primary Change In Output	FLOAT		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
P_CONTROL_DEADBAND	Primary Control Deadband	FLOAT	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
O_PV_POINT	Override Process Variable	ParamRef		Undefined		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
O_PROCESS_VARIABLE	Override Process Variable Value	FLOAT		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
O_PV_HIGH_LIMIT	Override Process Variable High Limit	FLOAT	≥ 0	10000		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
O_PV_LOW_LIMIT	Override Process Variable Low Limit	FLOAT	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
O_CONTROL_ACTION	Override Control Action Direction 0 - Forward 1 - Reverse	ENUM16	0→1	Reverse (1)	PID Control Action (114)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
O_SETPOINT_TRACK_EN	Override Setpoint Tracking 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
O_SETPOINT_POINT	Override Setpoint Input	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
O_SETPOINT	Override Setpoint Value	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech; Operator <b>R/O:</b> Auditor	2.0.0.XXX	Log Changes
O_SETPOINT_RAMP	Override Setpoint Ramp Rate Per Second	FLOAT	≥ 0	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
O_PROPORTIONAL_GAIN	Override Proportional Gain	FLOAT	≥ 0	0.5		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
O_INTEGRAL_GAIN	Override Integral Gain	FLOAT	≥ 0	4		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	Log Changes

PID								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
O_DERIVATIVE_GAIN	Override Derivative Gain	FLOAT	≥ 0	0		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
O_CHANGE_IN_OUTPUT	Override Change In Output	FLOAT		0		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
O_CONTROL_DEADBAND	Override Control Deadband	FLOAT	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
SWITCH_SELECT	Override Type Select 0 - Low 1 - High	ENUM16	0→1	Low (0)	Override Type Select (258)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
OVERRIDE_THRESHOLD	Override Threshold Value	FLOAT	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
OUTPUT_TYPE	Output Type 0 - Analog 1 - Discrete	ENUM16	0→1	Analog (0)	PID Output Type (113)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
ANALOG_OUT_POINT	Analog Output Point	ParamRef		Undefined		R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	Log Changes

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PID								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DIGITAL_OUT_POINT1	Digital Output Point 1 (Raise)	ParamRef		Undefined		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
DIGITAL_OUT_POINT2	Digital Output Point 2 (Lower)	ParamRef		Undefined		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
OUTPUT_SLEW_RATE	Output Ramp Rate Per Second	FLOAT	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
CLAMP_ENABLE	Output Clamping Mode 0 - Disable 1 - Enable	ENUM16	0→1	Enable (1)	Enable/Disable Selection (30)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
CLAMP_HIGH_LIMIT	Output Clamping High Limit Value	FLOAT	≥ 0	100		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
CLAMP_LOW_LIMIT	Output Clamping Low Limit Value	FLOAT	≥ 0	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Log Changes
OUTPUT_VALUE	Current Output of PID	FLOAT		0		R/O: Admin; Engineer;	2.0.0.XXX	

PID								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OUTPUT_MODE	Output Mode 0 - Manual 1 - Auto	ENUM16	0→1	Manual (0)	Output Mode (47)	Meas. Tech Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech; Operator <b>R/O:</b> Auditor	2.0.0.XXX	Log Changes
MANUAL_POSITION	Manual Position % (In Manual Mode)	FLOAT		0	% (18-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech; Operator <b>R/O:</b> Auditor	2.0.0.XXX	
RESUME_ON_RESET	Resume PID Control On System Restart 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
ACTION_ON_QUALITY	Action Of Output On Data Quality 0 - Continue 1 - Manual Mode	ENUM16	0→1	Manual Mode (1)	PID Action On Unhealthy Data (118)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
SELECTED_LOOP	Selected Loop 0 - Disabled 1 - Primary 2 - Override	ENUM16		Disabled (0)	PID Selected Loop (116)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	

## 5.52 PollTable Parameters

**Description:** The PollTable object provides the parameters for configuring a specific Modbus poll table.

**Number of Instances:** 36 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-51: PollTable Parameters**

Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Polling Table		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>N/A:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>N/A:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech <b>N/A:</b> Operator; Auditor	2.0.0.XXX	
COMM_PORT_TYPE	Comm Port Type	UC20		Instance: 1-6=Serial Port 1 (0) 7-12=Serial Port 2 (1) 13-18=Serial Port 3 (2) 19-24=Serial Port 4 (3)		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	



Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
				25-30=Ethernet Port 1 (4) 31-36=Ethernet Port 2 (5)				
COMM_PORT_NUM	Comm Port Number 0 - Serial Port 1 1 - Serial Port 2 2 - Serial Port 3 3 - Serial Port 4 4 - Ethernet Port 1 5 - Ethernet Port 2	ENUM16		Instance: 1-6=Serial Port 1 (0) 7-12=Serial Port 2 (1) 13-18=Serial Port 3 (2) 19-24=Serial Port 4 (3) 25-30=Ethernet Port 1 (4) 31-36=Ethernet Port 2 (5)	Comm Port Instance (302)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
POLL_TABLE_TAG	Poll Table Identification Tag	UC20		Instance: 1-6=PollTbl1 (Comm_1) 7-12=PollTbl7 (Comm_2) 13-18=PollTbl13 (Comm_3) 19-24=PollTbl19 (Comm_4) 25-30=PollTbl25 (Comm_5) 31-36=PollTbl31 (Comm_6)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_IP_ADD_1	Slave Server IP Address for Request 1	ByteArray 4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SERVER_PORT_NO_1	Slave Server Port Number for Request 1	UINT16	0→65535	0		<b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_1	Slave Address for Request 1	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_1	Function code for Request 1 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register 15 - Force Multiple Coils 16 - Set Multiple Registers	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SLAVE_REG_1	Starting Slave Register in Request 1	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
NUM_REG_1	Number of Registers for Request 1	UINT16	1→120	1		<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	Log Changes

Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
MASTER_REG_1	Starting Master Register for Request 1	UINT16	0→65535	0		Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
COMM_STATUS_1	Comm Status for Request 1	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_2	Slave Server IP Address for Request 2	ByteArray 4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_2	Slave Server Port Number for Request 2	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_2	Slave Address for Request 2	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	Log Changes

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Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
						<b>R/O:</b> Operator <b>N/A:</b> Auditor		
FUNC_CODE_2	Function code for Request 2 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register 15 - Force Multiple Coils 16 - Set Multiple Registers	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SLAVE_REG_2	Starting Slave Register in Request 2	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
NUM_REG_2	Number of Registers for Request 2	UINT16	1→120	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
MASTER_REG_2	Starting Master Register for Request 2	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes

Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
COMM_STATUS_2	Comm Status for Request 2	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_3	Slave Server IP Address for Request 3	ByteArray 4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_3	Slave Server Port Number for Request 3	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_3	Slave Address for Request 3	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_3	Function code for Request 3 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes

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Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	15 - Force Multiple Coils 16 - Set Multiple Registers							
SLAVE_REG_3	Starting Slave Register in Request 3	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
NUM_REG_3	Number of Registers for Request 3	UINT16	1→120	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
MASTER_REG_3	Starting Master Register for Request 3	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
COMM_STATUS_3	Comm Status for Request 3	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_4	Slave Server IP Address for Request 4	ByteArray 4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes

Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SERVER_PORT_NO_4	Slave Server Port Number for Request 4	UINT16	0→65535	0		N/A: Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
RTU_ADD_4	Slave Address for Request 4	UINT8	0→255	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_4	Function code for Request 4 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register 15 - Force Multiple Coils 16 - Set Multiple Registers	ENUM16		Polling Disabled (0)	Function Code (161)	R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
SLAVE_REG_4	Starting Slave Register in Request 4	UINT16	0→65535	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
NUM_REG_4	Number of Registers for Request 4	UINT16	1→120	1		R/W: Admin; Engineer;	2.0.0.XXX	Log Changes

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Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
MASTER_REG_4	Starting Master Register for Request 4	UINT16	0→65535	0		Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
COMM_STATUS_4	Comm Status for Request 4	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_5	Slave Server IP Address for Request 5	ByteArray 4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_5	Slave Server Port Number for Request 5	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_5	Slave Address for Request 5	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	Log Changes



Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
						R/O: Operator N/A: Auditor		
FUNC_CODE_5	Function code for Request 5 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register 15 - Force Multiple Coils 16 - Set Multiple Registers	ENUM16		Polling Disabled (0)	Function Code (161)	R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
SLAVE_REG_5	Starting Slave Register in Request 5	UINT16	0→ 65535	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
NUM_REG_5	Number of Registers for Request 5	UINT16	1→120	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
MASTER_REG_5	Starting Master Register for Request 5	UINT16	0→ 65535	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes

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Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
COMM_STATUS_5	Comm Status for Request 5	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_6	Slave Server IP Address for Request 6	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_6	Slave Server Port Number for Request 6	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_6	Slave Address for Request 6	UINT8	0 -> 255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_6	Function code for Request 6 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes

Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	15 - Force Multiple Coils 16 - Set Multiple Registers							
SLAVE_REG_6	Starting Slave Register in Request 6	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
NUM_REG_6	Number of Registers for Request 6	UINT16	1→120	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
MASTER_REG_6	Starting Master Register for Request 6	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
COMM_STATUS_6	Comm Status for Request 6	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_7	Slave Server IP Address for Request 7	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes

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Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SERVER_PORT_NO_7	Slave Server Port Number for Request 7	UINT16	0→65535	0		<b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_7	Slave Address for Request 7	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_7	Function code for Request 7 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register 15 - Force Multiple Coils 16 - Set Multiple Registers	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SLAVE_REG_7	Starting Slave Register in Request 7	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
NUM_REG_7	Number of Registers for Request 7	UINT16	1→120	1		<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	Log Changes

Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
MASTER_REG_7	Starting Master Register for Request 7	UINT16	0→65535	0		Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
COMM_STATUS_7	Comm Status for Request 7	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_8	Slave Server IP Address for Request 8	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_8	Slave Server Port Number for Request 8	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_8	Slave Address for Request 8	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	Log Changes

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Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
						<b>R/O:</b> Operator <b>N/A:</b> Auditor		
FUNC_CODE_8	Function code for Request 8 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register 15 - Force Multiple Coils 16 - Set Multiple Registers	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SLAVE_REG_8	Starting Slave Register in Request 8	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
NUM_REG_8	Number of Registers for Request 8	UINT16	1→120	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
MASTER_REG_8	Starting Master Register for Request 8	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes

Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
COMM_STATUS_8	Comm Status for Request 8	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_9	Slave Server IP Address for Request 9	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_9	Slave Server Port Number for Request 9	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_9	Slave Address for Request 9	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_9	Function code for Request 9 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes

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Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	15 - Force Multiple Coils 16 - Set Multiple Registers							
SLAVE_REG_9	Starting Slave Register in Request 9	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
NUM_REG_9	Number of Registers for Request 9	UINT16	1→120	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
MASTER_REG_9	Starting Master Register for Request 9	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
COMM_STATUS_9	Comm Status for Request 9	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_10	Slave Server IP Address for Request 10	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes



Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SERVER_PORT_NO_10	Slave Server Port Number for Request 10	UINT16	0→65535	0		N/A: Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
RTU_ADD_10	Slave Address for Request 10	UINT8	0→255	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_10	Function code for Request 10 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register 15 - Force Multiple Coils 16 - Set Multiple Registers	ENUM16		Polling Disabled (0)	Function Code (161)	R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
SLAVE_REG_10	Starting Slave Register in Request 10	UINT16	0→65535	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
NUM_REG_10	Number of Registers for Request 10	UINT16	1→120	1		R/W: Admin; Engineer;	2.0.0.XXX	Log Changes

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Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
						Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor		
MASTER_REG_10	Starting Master Register for Request 10	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
COMM_STATUS_10	Comm Status for Request 10	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_11	Slave Server IP Address for Request 11	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_11	Slave Server Port Number for Request 11	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_11	Slave Address for Request 11	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	Log Changes

Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
						R/O: Operator N/A: Auditor		
FUNC_CODE_11	Function code for Request 11 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register 15 - Force Multiple Coils 16 - Set Multiple Registers	ENUM16		Polling Disabled (0)	Function Code (161)	R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
SLAVE_REG_11	Starting Slave Register in Request 11	UINT16	0→ 65535	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
NUM_REG_11	Number of Registers for Request 11	UINT16	1→120	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
MASTER_REG_11	Starting Master Register for Request 11	UINT16	0→ 65535	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes

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Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
COMM_STATUS_11	Comm Status for Request 11	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_12	Slave Server IP Address for Request 12	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_12	Slave Server Port Number for Request 12	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_12	Slave Address for Request 12	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_12	Function code for Request 12 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes

Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	15 - Force Multiple Coils 16 - Set Multiple Registers							
SLAVE_REG_12	Starting Slave Register in Request 12	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
NUM_REG_12	Number of Registers for Request 12	UINT16	1→120	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
MASTER_REG_12	Starting Master Register for Request 12	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
COMM_STATUS_12	Comm Status for Request 12	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_13	Slave Server IP Address for Request 13	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes

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Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SERVER_PORT_NO_13	Slave Server Port Number for Request 13	UINT16	0→65535	0		N/A: Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_13	Slave Address for Request 13	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_13	Function code for Request 13 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register 15 - Force Multiple Coils 16 - Set Multiple Registers	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SLAVE_REG_13	Starting Slave Register in Request 13	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
NUM_REG_13	Number of Registers for Request 13	UINT16	1→120	1		<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	Log Changes

Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
MASTER_REG_13	Starting Master Register for Request 13	UINT16	0→65535	0		Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
COMM_STATUS_13	Comm Status for Request 13	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_14	Slave Server IP Address for Request 14	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_14	Slave Server Port Number for Request 14	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_14	Slave Address for Request 14	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	Log Changes

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Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
						<b>R/O:</b> Operator <b>N/A:</b> Auditor		
FUNC_CODE_14	Function code for Request 14 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register 15 - Force Multiple Coils 16 - Set Multiple Registers	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SLAVE_REG_14	Starting Slave Register in Request 14	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
NUM_REG_14	Number of Registers for Request 14	UINT16	1→120	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
MASTER_REG_14	Starting Master Register for Request 14	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes



Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
COMM_STATUS_14	Comm Status for Request 14	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_15	Slave Server IP Address for Request 15	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_15	Slave Server Port Number for Request 15	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_15	Slave Address for Request 15	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_15	Function code for Request 15 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes

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Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	15 - Force Multiple Coils 16 - Set Multiple Registers							
SLAVE_REG_15	Starting Slave Register in Request 15	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
NUM_REG_15	Number of Registers for Request 15	UINT16	1→120	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
MASTER_REG_15	Starting Master Register for Request 15	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
COMM_STATUS_15	Comm Status for Request 15	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	

Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SERVER_IP_ADD_16	Slave Server IP Address for Request 16	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_16	Slave Server Port Number for Request 16	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_16	Slave Address for Request 16	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_16	Function code for Request 16 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register 15 - Force Multiple Coils 16 - Set Multiple Registers	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SLAVE_REG_16	Starting Slave Register in Request 16	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b>	2.0.0.XXX	Log Changes

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Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
NUM_REG_16	Number of Registers for Request 16	UINT16	1→120	1		Operator <b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
MASTER_REG_16	Starting Master Register for Request 16	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
COMM_STATUS_16	Comm Status for Request 16	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_17	Slave Server IP Address for Request 17	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_17	Slave Server Port Number for Request 17	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes

Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
RTU_ADD_17	Slave Address for Request 17	UINT8	0→255	0		N/A: Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_17	Function code for Request 17 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register 15 - Force Multiple Coils 16 - Set Multiple Registers	ENUM16		Polling Disabled (0)	Function Code (161)	R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
SLAVE_REG_17	Starting Slave Register in Request 17	UINT16	0→ 65535	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
NUM_REG_17	Number of Registers for Request 17	UINT16	1→120	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
MASTER_REG_17	Starting Master Register for Request 17	UINT16	0→ 65535	0		R/W: Admin; Engineer;		Log Changes

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
COMM_STATUS_17	Comm Status for Request 17	UINT8		0	Inactive or Start of Transmission (162-0)	Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_18	Slave Server IP Address for Request 18	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_18	Slave Server Port Number for Request 18	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_18	Slave Address for Request 18	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_18	Function code for Request 18 0 - Polling Disabled 1 - Read Coil Status	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	Log Changes

Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register 15 - Force Multiple Coils 16 - Set Multiple Registers					R/O: Operator N/A: Auditor		
SLAVE_REG_18	Starting Slave Register in Request 18	UINT16	0→ 65535	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
NUM_REG_18	Number of Registers for Request 18	UINT16	1→120	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
MASTER_REG_18	Starting Master Register for Request 18	UINT16	0→ 65535	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
COMM_STATUS_18	Comm Status for Request 18	UINT8		0	Inactive or Start of Transmission (162-0)	R/O: Admin; Engineer; Meas. Tech; Operator N/A: Auditor	2.0.0.XXX	

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SERVER_IP_ADD_19	Slave Server IP Address for Request 19	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_19	Slave Server Port Number for Request 19	UINT16	0→ 65535	0		<b>R/W:</b>  Admin; Engineer; Meas. Tech  <b>R/O:</b>  Operator  <b>N/A:</b>  Auditor	2.0.0.XXX	Log Changes
RTU_ADD_19	Slave Address for Request 19	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_19	Function code for Request 19 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes



Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	15 - Force Multiple Coils 16 - Set Multiple Registers							
SLAVE_REG_19	Starting Slave Register in Request 19	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
NUM_REG_19	Number of Registers for Request 19	UINT16	1→120	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
MASTER_REG_19	Starting Master Register for Request 19	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
COMM_STATUS_19	Comm Status for Request 19	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_20	Slave Server IP Address for Request 20	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes

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Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SERVER_PORT_NO_20	Slave Server Port Number for Request 20	UINT16	0→65535	0		N/A: Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_20	Slave Address for Request 20	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_20	Function code for Request 20 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register 15 - Force Multiple Coils 16 - Set Multiple Registers	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SLAVE_REG_20	Starting Slave Register in Request 20	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
NUM_REG_20	Number of Registers for Request 20	UINT16	1→120	1		<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	Log Changes

Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
MASTER_REG_20	Starting Master Register for Request 20	UINT16	0→65535	0		Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
COMM_STATUS_20	Comm Status for Request 20	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_21	Slave Server IP Address for Request 21	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_21	Slave Server Port Number for Request 21	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_21	Slave Address for Request 21	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	Log Changes

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Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
						<b>R/O:</b> Operator <b>N/A:</b> Auditor		
FUNC_CODE_21	Function code for Request 21 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register 15 - Force Multiple Coils 16 - Set Multiple Registers	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SLAVE_REG_21	Starting Slave Register in Request 21	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
NUM_REG_21	Number of Registers for Request 21	UINT16	1→120	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
MASTER_REG_21	Starting Master Register for Request 21	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes

Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
COMM_STATUS_21	Comm Status for Request 21	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_22	Slave Server IP Address for Request 22	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_22	Slave Server Port Number for Request 22	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_22	Slave Address for Request 22	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_22	Function code for Request 22 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes

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Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	15 - Force Multiple Coils 16 - Set Multiple Registers							
SLAVE_REG_22	Starting Slave Register in Request 22	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
NUM_REG_22	Number of Registers for Request 22	UINT16	1→120	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
MASTER_REG_22	Starting Master Register for Request 22	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
COMM_STATUS_22	Comm Status for Request 22	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	

Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SERVER_IP_ADD_23	Slave Server IP Address for Request 23	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_23	Slave Server Port Number for Request 23	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_23	Slave Address for Request 23	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_23	Function code for Request 23 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register 15 - Force Multiple Coils 16 - Set Multiple Registers	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SLAVE_REG_23	Starting Slave Register in Request 23	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b>	2.0.0.XXX	Log Changes

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Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
NUM_REG_23	Number of Registers for Request 23	UINT16	1→120	1		Operator <b>N/A:</b> Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
MASTER_REG_23	Starting Master Register for Request 23	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
COMM_STATUS_23	Comm Status for Request 23	UINT8		0	Inactive or Start of Transmission (162-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_24	Slave Server IP Address for Request 24	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_24	Slave Server Port Number for Request 24	UINT16	0→65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator	2.0.0.XXX	Log Changes



Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
RTU_ADD_24	Slave Address for Request 24	UINT8	0→255	0		N/A: Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_24	Function code for Request 24 0 - Polling Disabled 1 - Read Coil Status 2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register 15 - Force Multiple Coils 16 - Set Multiple Registers	ENUM16		Polling Disabled (0)	Function Code (161)	R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
SLAVE_REG_24	Starting Slave Register in Request 24	UINT16	0→65535	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
NUM_REG_24	Number of Registers for Request 24	UINT16	1→120	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
MASTER_REG_24	Starting Master Register for Request 24	UINT16	0→65535	0		R/W: Admin; Engineer;	2.0.0.XXX	Log Changes

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Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
COMM_STATUS_24	Comm Status for Request 24	UINT8		0	Inactive or Start of Transmission (162-0)	Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	
SERVER_IP_ADD_25	Slave Server IP Address for Request 25	ByteArray4		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
SERVER_PORT_NO_25	Slave Server Port Number for Request 25	UINT16	0→ 65535	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
RTU_ADD_25	Slave Address for Request 25	UINT8	0→255	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator <b>N/A:</b> Auditor	2.0.0.XXX	Log Changes
FUNC_CODE_25	Function code for Request 25 0 - Polling Disabled 1 - Read Coil Status	ENUM16		Polling Disabled (0)	Function Code (161)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	Log Changes

Poll Table								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	2 - Read Input Status 3 - Read Holding Registers 4 - Read Input Registers 5 - Force Single Coil 6 - Set Single Register 15 - Force Multiple Coils 16 - Set Multiple Registers					R/O: Operator N/A: Auditor		
SLAVE_REG_25	Starting Slave Register in Request 25	UINT16	0→ 65535	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
NUM_REG_25	Number of Registers for Request 25	UINT16	1→120	1		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
MASTER_REG_25	Starting Master Register for Request 25	UINT16	0→ 65535	0		R/W: Admin; Engineer; Meas. Tech R/O: Operator N/A: Auditor	2.0.0.XXX	Log Changes
COMM_STATUS_25	Comm Status for Request 25	UINT8		0	Inactive or Start of Transmission (162-0)	R/O: Admin; Engineer; Meas. Tech; Operator N/A: Auditor	2.0.0.XXX	

## 5.53 PowerCtrl Parameters

**Description:** The PowerCtrl object provides the parameters for configuring power control to allow scheduled radio or SCADA operations.

**Number of Instances:** 3 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-52: PowerCtrl Parameters**

Power Ctrl								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Power Control		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20		Power Control		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	Log Changes

Power Ctrl								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
PWR_CTRL_ENABLE	Power Control Enable 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
PWR_CTRL_STATUS	Power Control Status 0 - Power Control Inactive 1 - Power Control Active 2 - Power Control Low Voltage 3 - Power Control Held By Comms	ENUM16		Power Control Inactive (0)	Power Control Status (259)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor		
COMM_ENABLE_OPTION	Communication Port Enable Option 3 - All Comm Ports Enabled	ENUM16	3→3	All Comm Ports Enabled (3)	Power Control Comm Port Option (257)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OUT_REF	Output Ref	ParamRef		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
START_TIME_1	Power Control Timer 1 Start Time	UINT16	0→9999	9999		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

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Power Ctrl								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TIME_ON_1	Power Control Timer 1 Duration	UINT16	0→ 14400	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
TIME_OFF_1	Power Control Timer 1 Off Duration	UINT16	0→ 14400	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
START_TIME_2	Power Control Timer 2 Start Time	UINT16	0→ 9999	9999		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
TIME_ON_2	Power Control Timer 2 Duration	UINT16	0→ 14400	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
TIME_OFF_2	Power Control Timer 2 Off Duration	UINT16	0→ 14400	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
START_TIME_3	Power Control Timer 3 Start Time	UINT16	0→ 9999	9999		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

Power Ctrl								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TIME_ON_3	Power Control Timer 3 Duration	UINT16	0→ 14400	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
TIME_OFF_3	Power Control Timer 3 Off Duration	UINT16	0→ 14400	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
START_TIME_4	Power Control Timer 4 Start Time	UINT16	0→ 9999	9999		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
TIME_ON_4	Power Control Timer 4 Duration	UINT16	0→ 14400	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
TIME_OFF_4	Power Control Timer 4 Off Duration	UINT16	0→ 14400	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

## 5.54 Press Parameters

**Description:** The Press object provides the parameters for configuring static pressure sensors.

**Number of Instances:** 20 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-53: Press Parameters**

Press								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "4088B_X Press" (where X is instance number between 1 and 20)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
MOD_LOC	Module Location	UINT8		1		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal



Press								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CHANNEL	Channel	UINT8		Instance: 1-1 2-2 3-3 4-4 5-5 6-6 7-7 8-8 9-9 10-10 11-11 12-12 13-13 14-14 15-15 16-16 17-17 18-18 19-19 20-20		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
DESC	Description	UC20		Instance: "4088B_X Press" (where X is instance number between 1 and 20)		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
UNITS	Units 0 - psi 1 - kPa 2 - MPa	ENUM16	0→4	psi (0)	Pressure (78)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Press								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	3 - bar 4 - kg/cm <sup>2</sup>							
LIVE	Live Value	FLOAT		0	psi(a) (2-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
OVRD	Override Value	FLOAT		0	psi(a) (2-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FAULT	Fault Value	FLOAT		0	psi(a) (2-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LAST_GOOD	Last Good Value	FLOAT		0	psi(a) (2-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
SELECTED	Selected Value	FLOAT		0	psi(a) (2-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
USER_MODE	Operation Mode 0 - Live 1 - Override	ENUM16	0→1	Live (0)	User Selection (31)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Press								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FAULT_MODE	Fault Mode 0 - Live 1 - Fault 2 - Last Good 3 - Last Hour Average	ENUM16	0→3	Live (0)	Fault Selection (32)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DAMPING	Damping Time	FLOAT	0→60	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ALM_OBJ	Alarm Reference	ObjectRef		Instance: 1-Alarm_2002 2-Alarm_2005 3-Alarm_2008 4-Alarm_2011 5-Alarm_2014 6-Alarm_2017 7-Alarm_2020 8-Alarm_2023 9-Alarm_2026 10-Alarm_2029 11-Alarm_2032 12-Alarm_2035 13-Alarm_2038 14-Alarm_2041 15-Alarm_2044 16-Alarm_2047 17-Alarm_2050 18-Alarm_2053 19-Alarm_2056 20-Alarm_2059		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
URL	Upper Range Limit	FLOAT		0	psi(a) (2-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
LRL	Lower Range Limit	FLOAT		0	psi(a) (2-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
MONITOR_MAX	Monitor Maximum	FLOAT		4000	psi(a) (2-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
MONITOR_MIN	Monitor Minimum	FLOAT		0	psi(a) (2-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
MIN_SPAN	Minimum Span	FLOAT		0	psi(a) (2-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
INPUT_STATUS	Input Health Status 0 - Normal 1 - Not Licensed 2 - Instance Inactive 3 - Comm Fail 4 - Override Active 5 - In Alarm 6 - Point Fail	BIN16		Normal	Alarm Status DP SP (44)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

Press								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	7 - Above URL 8 - Below LRL 9 - Input Frozen							
CAL_OBJ	Calibration Reference	ObjectRef		Instance: 1-FLTCa_1-2 2-FLTCa_1-5 3-FLTCa_1-8 4-FLTCa_1-11 5-FLTCa_1-14 6-FLTCa_1-17 7-FLTCa_1-20 8-FLTCa_1-23 9-FLTCa_1-26 10-FLTCa_1-29 11-FLTCa_1-32 12-FLTCa_1-35 13-FLTCa_1-38 14-FLTCa_1-41 15-FLTCa_1-44 16-FLTCa_1-47 17-FLTCa_1-50 18-FLTCa_1-53 19-FLTCa_1-56 20-FLTCa_1-59		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
LAST_HOUR_AVERAGE	Last Hour Average Value	FLOAT		0	psi(a) (2-0)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.5.0.XXX	Legal

## 5.55 RackConfig Parameters

**Description:** The RackConfig object provides the parameters for configuring pass-thru capabilities to additional FB1000 and FB2000 series flow computer and FB3000 RTUs, and Remote IO units.

**Number of Instances:** 10 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-54: RackConfig Parameters**

RackConfig								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance:		<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0 → 5	0		<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.5.0.XXX	Legal
PASS_THRU_ADDR	Pass Thru Address	UINT16	0 → 65519	Instance:		<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas.	2.5.0.XXX	Log Changes

RackConfig								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
RACK_IP_ADDR	Rack IP Address	ByteArray 4		IPv4 Address (41)		Tech; Operator; Auditor <b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	Log Changes
COMM_PORT_NUM	Comm Port Number	ENUM16	4 → 5	Ethernet Port 1 (4)	Comm Port Instance (302)	<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	Log Changes
RACK_DNP_ADDR	Rack DNP Address	UINT16	0 → 65519	1		<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	Log Changes
TCPIP_PORT	TAC/IP Port	UINT16		20000		<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	Log Changes

## 5.56 Redundancy Parameters

- Description:** The Redundancy object provides the parameters for synchronizing and collecting the data between two CPUs
- Number of Instances:** 1 instance may exist
- Storage Location:** Saved to internal configuration memory.

**Table 5-55: Redundancy Parameters**

Redundancy								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance:		<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0 → 5	0		<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.5.0.XXX	Legal
REDUN_STATUS	Redundancy Status	ENUM16		0	Redundancy Status (385)	<b>R/O:</b> Admin; Engineer;	2.13.0.XXX	-



Redundancy								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
STANDBY_STATUS	Standby Status	ENUM16		0	Standby Status (386)	Meas. Tech Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.13.0.XXX	-
REDUN_SLOT	Active Slot	ENUM16		0	Active Slot (387)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.13.0.XXX	-
RED_UPD_START	Update Start	UINT32		0	Time Synchronization Deadband (310)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.13.0.XXX	-
RED_UPD_LENGTH	Update Length	UINT32		0	Time Synchronization Deadband (310)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.13.0.XXX	-
RED_UPD_START_AVG	Update Start Avg	FLOAT		0	Time Synchronization Deadband (310)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.13.0.XXX	-
RED_UPD_LENGTH_AVG	Update Length Avg	FLOAT		0	Time Synchronization Deadband (310)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.13.0.XXX	-
RED_UPD_DELAY	Update Delays	UINT32		0	Time Synchronization Deadband (310)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.13.0.XXX	-

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
RED_SL_STATE	SideLoad State	UC40				<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.14.0.XXX	-
RED_SL_HIST	SideLoad History	UC40				<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.14.0.XXX	-
PRIMARY_LINK	Primary Link Interface	ENUM16	0 -> 3	0	Link (404)	<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.14.0.XXX	-
SECONDARY_LINK	Secondary Link Interface	ENUM16	0 -> 3	0	Link (404)	<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.14.0.XXX	-
PRIMARY_LINK_STAT	Primary Link Status	ENUM16		0	Standby Status (386)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.14.0.XXX	-
SECONDARY_LINK_STAT	Secondary Link Status	ENUM16		0	Standby Status (386)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.14.0.XXX	-
PRIMARY_LINK_PEER	Primary Link Peer IP address	BYTE4		0x00000000	IPv4 Address (41)	<b>R/W:</b> Admin	2.14.0.XXX	-

Redundancy								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
						<b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor		
SECONDARY_LINK_PEER	Secondary Link Peer IP address	BYTE4		0x00000000	IPv4 Address (41)	<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.14.0.XXX	-

## 5.57 Role Parameters

**Description:** The Role object provides the parameters for configuring roles assigned to different users.

**Number of Instances:** 5 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-56: Role Parameters**

Role								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Role		<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
ROLE_NAME	Role Name	UC20		Instance: 1-Admin 2-Engineer 3-Measurement Tech		<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Role								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
				4-Operator 5-Auditor				
FW_PERM	Permit Firmware Update 0 - Disable 1 - Enable	ENUM16	0→1	Instance: 1-3: Enable (1) 4-5: Disable (0)	Enable/Disable Selection (30)	Instance: 1: <b>R/O:</b> Admin Engineer; Meas. Tech; Operator; Auditor  2-5: <b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
USR_PERM	Permit User Management 0 - Disable 1 - Enable	ENUM16	0→1	Instance: 1: Enable (1) 2-5: Disable (0)	Enable/Disable Selection (30)	Instance: 1: <b>R/O:</b> Admin Engineer; Meas. Tech; Operator; Auditor  2-5: <b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CFG_PERM	Permit Configuration Download	ENUM16	0→1	Instance: 1-3: Enable (1) 4-5: Disable (0)	Enable/Disable Selection (30)	Instance: 1: <b>R/O:</b>	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Role								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	0 - Disable 1 - Enable					Admin Engineer; Meas. Tech; Operator; Auditor  2-5: <b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor		
SYS_RST_PERM	Permit System Restart 0 - Disable 1 - Enable	ENUM16	0→1	Instance: 1-3: Enable (1) 4-5: Disable (0)	Enable/Disable Selection (30)	Instance: 1: <b>R/O:</b> Admin Engineer; Meas. Tech; Operator; Auditor  2-5: <b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DAT_COLL_PERM	Permit Data Collection 0 - Disable 1 - Enable	ENUM16	0→1	Instance: 1-4: Enable (1) 5: Disable (0)	Enable/Disable Selection (30)	Instance: 1: <b>R/O:</b> Admin Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Role								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
						2-5: <b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor		
DAT_MGMT_PERM	Permit Data Management 0 - Disable 1 - Enable	ENUM16	0→1	Instance: 1-3: Enable (1) 4-5: Disable (0)	Enable/Disable Selection (30)	Instance: 1: <b>R/O:</b> Admin Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
						2-5: <b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor		
CALIB_PERM	Permit Calibration 0 - Disable 1 - Enable	ENUM16	0→1	Instance: 1-3: Enable (1) 4-5: Disable (0)	Enable/Disable Selection (30)	Instance: 1: <b>R/O:</b> Admin Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
						2-5: <b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas.		

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TIME_SYNC_PERM	Permit Time Synchronization 0 - Disable 1 - Enable	ENUM16	0→1	Instance: 1-4: Enable (1) 5: Disable (0)	Enable/Disable Selection (30)	Tech; Operator; Auditor  Instance: 1: <b>R/O:</b> Admin Engineer; Meas. Tech; Operator; Auditor  2-5: <b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DNP3_READ_PERM	Permit DNP3 File Read 0 - Disable 1 - Enable	ENUM16	0→1	Instance: 1-5: Enable (1)	Enable/Disable Selection (30)	Instance: 1: <b>R/O:</b> Admin Engineer; Meas. Tech; Operator; Auditor  2-5: <b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SYS_VERIFY_PERM	System Verify Permission 0 - Disable 1 - Enable	ENUM16	0→1	Instance: 1 - Enable (1) 2 - Disable (0)	Enable/Disable Selection (30)	Instance: 1: <b>R/O:</b>	2.5.0.XXX	Log Changes



Role								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
				3 - Disable (0) 4 - Disable (0) 5 - Disable (0)		Admin; Engineer; Meas. Tech; Operator; Auditor  2-5: <b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor		
KEY_UPDATE_PERM	Key Update Permission	ENUM16	0→1	Instance: 1 - Enable (1) 2 - Disable (0) 3 - Disable (0) 4 - Disable (0) 5 - Disable (0)	Enable/Disable Selection (30)	Instance: 1: <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor  2-5: <b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.13.0.XXX	Log Changes

## 5.58 RTD Parameters

**Description:** The RTD object provides the parameters for configuring remote temperature detectors.

**Number of Instances:** 20 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-57: RTD Parameters**

RTD								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "4088B_X RTD" (where X is instance number between 1 and 20)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
MOD_LOC	Module Location	UINT8		1		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CHANNEL	Channel	UINT8		Instance: 1-1 2-2		<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

RTD								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
				3-3		Meas. Tech		
				4-4		Operator; Auditor		
				5-5				
				6-6				
				7-7				
				8-8				
				9-9				
				10-10				
				11-11				
				12-12				
				13-13				
				14-14				
				15-15				
				16-16				
				17-17				
				18-18				
				19-19				
				20-20				
DESC	Description	UC20		Instance: "4088B_X RTD" (where X is instance number between 1 and 20)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
UNITS	Units 0 - °F 1 - °C	ENUM16	Instance: 1-20: 0→1	°F (0)	Instance: 1-20: 4088 Temperature (242)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LIVE	Live Value	FLOAT		0	Instance: 1-20: °F (242-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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RTD								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OVRD	Override Value	FLOAT		0	Instance: 1-20: °F (242-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FAULT	Fault Value	FLOAT		0	Instance: 1-20: °F (242-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LAST_GOOD	Last Good Value	FLOAT		0	Instance: 1-20: °F (242-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
SELECTED	Selected Value	FLOAT		0	Instance: 1-20: °F (242-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
USER_MODE	Operation Mode 0 - Live 1 - Override	ENUM16	0→1	Live (0)	User Selection (31)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FAULT_MODE	Fault Mode 0 - Live 1 - Fault 2 - Last Good 3 - Last Hour Average	ENUM16	0→3	Live (0)	Fault Selection (32)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
RTD_TYPE	RTD Type 1 - 3-wire 2 - 4-wire	ENUM16	Instance: 1-20: 1→2	4-wire (2)	Instance: 1-20: 4088 RTD Type (219)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
CVD_CURVE	CVD Curve Selection 0 - User	ENUM16	0→2	User (0)	CVD Curve Selection (49)	<b>R/W:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

RTD								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	1 - Alpha 0.00385 DIN/IEC 2 - Alpha 0.00392					Meas. Tech <b>R/O:</b> Operator; Auditor		
RTD_ACOEFF	CVD A Coeff In Use	FLOAT		0.0039083		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
RTD_BCOEFF	CVD B Coeff In Use	FLOAT		-5.78E - 07		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
RTD_R0COEFF	CVD R0 Coeff in Use	FLOAT		100		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
RTD_CCOEFF	CVD C Coeff In Use	FLOAT		-4.18E - 12		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
USR_ACOEFF	CVD A Coeff Entered	FLOAT	3.91E-04 → 3.91E-02	0.0039083		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
USR_BCOEFF	CVD B Coeff Entered	FLOAT	-5.78E-06 < -5.78E-08	-5.78E - 07		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
USR_R0COEFF	CVD R0 Coeff Entered	FLOAT	95→105	100		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
USR_CCOEFF	CVD C Coeff Entered	FLOAT	-4.18E-11 → 4.18E-11	-4.18E - 12		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DAMPING	Damping Time	FLOAT	0→60	0	s (17-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ALM_OBJ	Alarm Reference	ObjectRef		Instance: 1-Alarm_2003 2-Alarm_2006 3-Alarm_2009 4-Alarm_2012 5-Alarm_2015 6-Alarm_2018 7-Alarm_2021 8-Alarm_2024 9-Alarm_2027 10-Alarm_2030 11-Alarm_2033 12-Alarm_2036 13-Alarm_2039 14-Alarm_2042 15-Alarm_2045 16-Alarm_2048 17-Alarm_2051 18-Alarm_2054 19-Alarm_2057 20-Alarm_2060		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
URL	Upper Range Limit	FLOAT		1562	Instance: 1-20: °F (242-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

RTD								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
LRL	Lower Range Limit	FLOAT		- 328	Instance: 1-20: °F (242-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
MONITOR_MAX	Monitor Maximum	FLOAT		250	Instance: 1-20: °F (242-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
MONITOR_MIN	Monitor Minimum	FLOAT		- 50	Instance: 1-20: °F (242-0)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
MIN_SPAN	Minimum Span	FLOAT		50	Instance: 1-20: °F (242-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
INPUT_STATUS	Input Health Status 0 - Normal 1 - Not Licensed 2 - Instance Inactive 3 - Comm Fail 4 - Override Active 5 - In Alarm 6 - Point Fail 7 - Above URL 8 - Below LRL 9 - Input Frozen 10 - Type Mismatch	BIN16		Normal	Alarm Status RTD (220)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CAL_OBJ	Calibration Reference	ObjectRef		Instance: 1-FLTCa_1-3 2-FLTCa_1-6 3-FLTCa_1-9 4-FLTCa_1-12		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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RTD								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
				5-FLTCa_1-15				
				6-FLTCa_1-18				
				7-FLTCa_1-21				
				8-FLTCa_1-24				
				9-FLTCa_1-27				
				10-FLTCa_1-30				
				11-FLTCa_1-33				
				12-FLTCa_1-36				
				13-FLTCa_1-39				
				14-FLTCa_1-42				
				15-FLTCa_1-45				
				16-FLTCa_1-48				
				17-FLTCa_1-51				
				18-FLTCa_1-54				
				19-FLTCa_1-57				
				20-FLTCa_1-60				
LAST_HOUR_AVERAGE	Last Hour Average Value	FLOAT		Instance:		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.5.0.XXX	Legal
				1 - °F (242-0)				
				2 - °F (242-0)				
				3 - °F (242-0)				
				4 - °F (242-0)				
				5 - °F (242-0)				
				6 - °F (242-0)				
				7 - °F (242-0)				
				8 - °F (242-0)				
				9 - °F (242-0)				
				10 - °F (242-0)				
				11 - °F (242-0)				
				12 - °F (242-0)				
				13 - °F (242-0)				
				14 - °F (242-0)				
				15 - °F (242-0)				
				16 - °F (242-0)				
				17 - °F (242-0)				
				18 - °F (242-0)				



RTD								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
				19 - °F (242-0)				
				20 - °F (242-0)				

## 5.59 Security Parameters

**Description:** The Security object provides the parameters for configuring user login requirements and lockout settings.

**Number of Instances:** 1 instance may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-58: Security Parameters**

Security								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Security Policy		<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20		Security Policy		<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas.	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Security								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
LOCKOUT_TYPE	Lockout Type 0 - Disabled 1 - Timed	ENUM16	0→1	Timed (1)	Lockout Type (121)	Tech; Operator; Auditor <b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LOCKOUT_THRESHOLD	Lockout Threshold	UINT8	1→10	5		<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LOCKOUT_DURATION	Lockout Duration	UINT16	1→20160	15	min (17-1)	<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SUG_MIN_PASS_LEN	Minimum Password Length	UINT8	0→32	8		<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SS_REQUIRE_LOGIN	Screen Saver 0 - No Password Required 1 - Password Required	ENUM16	0→1	No Password Required (0)	Screen Saver Password (250)	<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

## 5.60 Sensor Parameters

**Description:** The Sensor object provides the parameters for configuring multivariable sensors.

**Number of Instances:** 20 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-59: Sensor Parameters**

Sensor								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "4088B_Sensor-X" (where X is instance number between 1 and 20)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20		Instance: "4088B_Sensor-X" (where X is instance number between 1 and 20)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SER_NUM	Serial Number	UINT32	0→ 16777216	0		<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

Sensor								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
XMTR_STATUS	Transmitter Status 0 - Normal 1 - SP Out of Low Limits 2 - SP Below Low Alr Limits 3 - SP Above Upr Alr Limits 4 - SP Out of Hi Limits 5 - DP Out of Low Limits 6 - DP Below Low Alr Limits 7 - DP Above Upr Alr Limits 8 - DP Out of Hi Limits 9 - Warning Set 10 - Critical Alr Set 11 - 4088B Calib in Progress 12 - Sensor Module Fail 13 - LCD Comm Error 14 - RTD Sensor Mismatch 15 - ST Below Low Alr Limits 16 - ST Above Upr Alr Limits 17 - ST Out of Low Limits 18 - ST Out of Hi Limits 19 - PT Sensor Fail 20 - PT Out of Low Limits 21 - PT Below Low Alr Limits 22 - PT Above Upr Alr Limits 23 - PT Out of Hi Limits 24 - ST Simulation Enable 25 - Write Protect Switch Lock 26 - PT Simulation Enable 27 - Feature Board Fail 28 - SP Simulation Enable 29 - DP Simulation Enable 30 - Sensor Module	BIN32		Normal	Sensor Transmitter Status (110)	Meas. Tech Operator; Auditor  <b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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Sensor								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	Incompatible 31 - Power Fail 32 - Sensor Module Comm Fail							
DP	Differential Pressure Object	ObjectRef	DP	Instance: "DP_1-X" (where X is instance number between 1 and 20)		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
SP	Static Pressure Object	ObjectRef	Press	Instance: "Press_1-X" (where X is instance number between 1 and 20)		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
PT	Flowing Temperature Object	ObjectRef	RTD	Instance: "RTD_1-X" (where X is instance number between 1 and 20)		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
SENS_TEMP	Sensor Temperature	FLOAT		0	Instance: 1-20: °F (242-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
TEMP_UNITS	Temperature Units 0 - °F 1 - °C	ENUM16	Instance : 1-20: 0 -> 1	°F (0)	Instance: 1-20: 4088 Temperature (242)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
URL	Upper Range Limit	FLOAT		0	Instance: 1-20: °F (242-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
LRL	Lower Range Limit	FLOAT		0	Instance: 1-20: °F (242-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

Sensor								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SW_REV	Sensor App FW Revision	ByteArray 4		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
SENS_CFG	Sensor Configuration 0 - Standard Coplanar 1 - Standard Threaded 2 - Level Coplanar 3 - Reference Class Coplanar 4 - High Temp Conventional 252 - Unknown	ENUM16		Standard Coplanar (0)	Sensor Configuration (85)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
SENS_TYPE	Sensor Type 0 - Dual Variable 1 - DP Only 2 - SP Only	ENUM16		Dual Variable (0)	Sensor Type (86)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
SP_TYPE	Static Pressure Type 0 - No Static Pressure 1 - Absolute 2 - Gauge	ENUM16		Absolute (1)	Static Pressure Type (87)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
DP_RANGE	DP Range 0 - Range 0 1 - Range 1 2 - Range 2 3 - Range 3 4 - Range 4 5 - Range 5 6 - Range 6 7 - Range 7 8 - Range 8 9 - Range 9 10 - Range 10 253 - Special	ENUM16		Range 0 (0)	RMT Sensor Range (88)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
SP_RANGE	SP Range 0 - Range 0 1 - Range 1	ENUM16		Range 0 (0)	RMT Sensor Range (88)	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

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Sensor								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	2 - Range 2 3 - Range 3 4 - Range 4 5 - Range 5 6 - Range 6 7 - Range 7 8 - Range 8 9 - Range 9 10 - Range 10 253 - Special					Meas. Tech Operator; Auditor		
FLNG_TYPE	Flange Type 12 - Traditional 13 - Coplanar 14 - Remote Seal 15 - Level; 3in; 150lb 16 - Level; 4in; 150lb 17 - Level; 3in; 300lb 18 - Level; 4in; 300lb 19 - Level; DN 80; PN 40 20 - Level; DN 100; PN 40 21 - Level; DN 100; PN 10/16 22 - Level; 2 in; 150lb 23 - Level; 2in; 300lb 24 - Level; DN 50; PN 6 25 - Level; DN 50; PN 40 44 - 1/2in; NPTF 45 - DIN16288G 1/2 A male 46 - 1/4in; NPTF 240 - Auto Clave F-250-C 241 - Tri-Clamp 242 - Fractional Line Fit 243 - 1/8in; NPTF 244 - VCR 245 - PMC 246 - Traditional RC 1/4	ENUM16		Traditional (12)	Flange Type (89)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal



Sensor								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	247 - Traditional RC 1/2 252 - Unknown 253 - Special							
FLNG_MAT	Flange Material 0 - Carbon Steel 1 - Undefined 2 - 316 Stainless Steel 3 - Hastelloy C 4 - Monel 5 - Tantalum 15 - Gold Monel 24 - Kynar 25 - Gold Monel 30 - Hastelloy C276 34 - PTFE Coated 316L SST 35 - Gold Plated Hastelloy C276 239 - Monel 400 251 - None 252 - Unknown 253 - Special	ENUM16		316 Stainless Steel (2)	Sensor Material (90)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
ORING_MTL	O-ring Material 10 - PTFE (Teflon R) 11 - Viton 12 - Buna-N 13 - Ethyl-Prop 36 - PTFE Glass 37 - PTFE Graphite 251 - None 252 - Unknown 253 - Special	ENUM16		PTFE Graphite (37)	O-ring Material (91)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
DRN_VNT_MTL	Drain Vent Material 0 - Carbon Steel 1 - Undefined 2 - 316 Stainless Steel	ENUM16		316 Stainless Steel (2)	Sensor Material (90)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

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Sensor								
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	3 - Hastelloy C 4 - Monel 5 - Tantalum 15 - Gold Monel 24 - Kynar 25 - Gold Monel 30 - Hastelloy C276 34 - PTFE Coated 316L SST 35 - Gold Plated Hastelloy C276 239 - Monel 400 251 - None 252 - Unknown 253 - Special							
ISO_MTL	Module Isolate Material 0 - Carbon Steel 1 - Undefined 2 - 316 Stainless Steel 3 - Hastelloy C 4 - Monel 5 - Tantalum 15 - Gold Monel 24 - Kynar 25 - Gold Monel 30 - Hastelloy C276 34 - PTFE Coated 316L SST 35 - Gold Plated Hastelloy C276 239 - Monel 400 251 - None 252 - Unknown 253 - Special	ENUM16		Carbon Steel (0)	Sensor Material (90)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

Sensor								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FILL_FLD	Module Fill Fluid 0 - Undefined 1 - Silicone 2 - Inert 7 - Neobee 252 - Unknown 253 - Special	ENUM16		Undefined (0)	Fill Fluid (92)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal

## 5.61 SlaveConf Parameters

**Description:** The SlaveConf object provides the parameters for Modbus slave configuration.

**Number of Instances:** 6 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-60: SlaveConf Parameters**

SlaveConf								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Slave Config		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
T_MODE	Modbus Transmission Mode 0 - ASCII 1 - RTU 2 - TCP	ENUM16	Instance : 1-4: 0→1 5-6: 0→2	Instance: 1-4: RTU (1) 5-6: TCP (2)	Modbus Mode Selection (60)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

SlaveConf								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
BYTE_ORD	Byte Order 0 - LSB 1 - MSB	ENUM16	0→1	LSB (0)	Modbus Byte Order Selection (61)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
EFM_ENB	EFM Modbus Option 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DATE_REG	EFM Date Register	UINT16		7046		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
TIME_REG	EFM Time Register	UINT16		7047		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
EVT_REG	Alarm/Event Register	UINT16		32		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DAY_IDX_1	Station 1 - Day Idx Reg	UINT16		7160		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
HR_IDX_1	Station 1 - Hr Idx Reg	UINT16		7161		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DAY_REG_1	Station 1 - Day Hist Reg	UINT16		703		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
HR_REG_1	Station 1 - Hr Hist Reg	UINT16		704		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
EFM1_HIST1	Station 1 - EFM Hist Val 1	ObjectRef	Hist	Hist_2401		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
EFM1_NUM_HIST	Station 1 - Num of Hist Points	UINT16	1→60	8		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DAY_IDX_2	Station 2 - Day Idx Reg	UINT16		7211		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
HR_IDX_2	Station 2 - Hr Idx Reg	UINT16		7212		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DAY_REG_2	Station 2 - Day Hist Reg	UINT16		705		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

SlaveConf								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
HR_REG_2	Station 2 - Hr Hist Reg	UINT16		706		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
EFM2_HIST1	Station 2 - EFM Hist Val 1	ObjectRef	Hist	Hist_3201		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
EFM2_NUM_HIST	Station 2 - Num of Hist Points	UINT16	1→60	8		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
MODBUS_ADDR	Modbus Slave Address	UINT8	1→247	1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
TCP_ENABLE	Modbus TCP Enable/Disable 0 - Disable 1 - Enable	ENUM16	0→1	Enable (1)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
TCP_PORT_NUM	Modbus TCP Port Num	UINT16		502		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DAY_IDX_3	Station 3 - Day Idx Reg	UINT16		7262		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
HR_IDX_3	Station 3 - Hr Idx Reg	UINT16		7263		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DAY_REG_3	Station 3 - Day Hist Reg	UINT16		707		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
HR_REG_3	Station 3 - Hr Hist Reg	UINT16		708		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
EFM3_HIST1	Station 3 - EFM Hist Val 1	OBJREF	Hist	Hist_4001		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
EFM3_NUM_HIST	Station 3 - Num of Hist Points	UINT16	1-60	8		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DAY_IDX_4	Station 4 - Day Idx Reg	UINT16		7313		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
HR_IDX_4	Station 4 - Hr Idx Reg	UINT16		7314		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes



SlaveConf								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DAY_REG_4	Station 4 - Day Hist Reg	UINT16		709		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
HR_REG_4	Station 4 - Hr Hist Reg	UINT16		710		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
EFM4_HIST1	Station 4 - EFM Hist Val 1	OBJREF	Hist	Hist_4801		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
EFM4_NUM_HIST	Station 4 - Num of Hist Points	UINT16	1-60	8		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DAY_IDX_5	Station 5 - Day Idx Reg	UINT16		7364		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
HR_IDX_5	Station 5 - Hr Idx Reg	UINT16		7365		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DAY_REG_5	Station 5 - Day Hist Reg	UINT16		711		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
HR_REG_5	Station 5 - Hr Hist Reg	UINT16		712		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
EFM5_HIST1	Station 5 - EFM Hist Val 1	OBJREF	Hist	Hist_5601		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
EFM5_NUM_HIST	Station 5 - Num of Hist Points	UINT16	1-60	8		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DAY_IDX_6	Station 6 - Day Idx Reg	UINT16		7415		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
HR_IDX_6	Station 6 - Hr Idx Reg	UINT16		7416		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DAY_REG_6	Station 6 - Day Hist Reg	UINT16		713		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
HR_REG_6	Station 6 - Hr Hist Reg	UINT16		714		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

SlaveConf								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
EFM6_HIST1	Station 6 - EFM Hist Val 1	OBJREF	Hist	Hist_6401		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
EFM6_NUM_HIST	Station 6 - Num of Hist Points	UINT16	1-60	8		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DAY_IDX_7	Station 7 - Day Idx Reg	UINT16		7466		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
HR_IDX_7	Station 7 - Hr Idx Reg	UINT16		7467		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DAY_REG_7	Station 7 - Day Hist Reg	UINT16		715		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
HR_REG_7	Station 7 - Hr Hist Reg	UINT16		716		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
EFM7_HIST1	Station 7 - EFM Hist Val 1	OBJREF	Hist	Hist_7201		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
EFM7_NUM_HIST	Station 7 - Num of Hist Points	UINT16	1-60	8		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DAY_IDX_8	Station 8 - Day Idx Reg	UINT16		7517		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
HR_IDX_8	Station 8 - Hr Idx Reg	UINT16		7518		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DAY_REG_8	Station 8 - Day Hist Reg	UINT16		717		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
HR_REG_8	Station 8 - Hr Hist Reg	UINT16		718		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
EFM8_HIST1	Station 8 - EFM Hist Val 1	OBJREF	Hist	Hist_8001		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
EFM8_NUM_HIST	Station 8 - Num of Hist Points	UINT16	1-60	8		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

SlaveConf								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
EFM_APP_EVNT_ENB	EFM Application Event Enable 0 - Disable 1 - Enable	ENUM16	0-1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	Log Changes
ENRON_EVNT_REG_ENB	Enable Enron Event Register Format 0 - Disable 1 - Enable	ENUM16	0-1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin <b>R/O:</b> Engineer; Meas. Tech; Operator; Auditor	2.3.0.XXX	Log Changes
EFM_HIST_TIME_FORMAT	EFM History Time Format 0 - HHMM 1 - HHMMSS	ENUM16	0-1	HHMM (0)	EFM Hist Time Format (345)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.3.0.XXX	Log Changes
MBS_HIST_TIME_STAMP	Timestamp Mode	ENUM16	0 -> 1	1	Historical Log Timestamp Mode (319)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.14.0.XXX	Log Changes

## 5.62 Station Parameters

**Description:** The Station object provides the parameters for configuring stations.

**Number of Instances:** 36 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-61: Station Parameters**

Station								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "Station_X" (where X is instance number between 1 and 36)		R/O: Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		R/O: Operator; Auditor	2.9.XXX.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.9.XXX.XXX	
DESC	Description	UC20		Undefined		R/O: Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
HIST_GRP_OBJ	History Group	ObjectRef	Hist Grp	Instance: "Liq Prod_X" (where X is instance number between 1 and 36)		R/O: Admin; Engineer; Meas. Tech Operator; Auditor	2.9.XXX.XXX	Legal
FLD_TYPE	Fluid Type 0 - Natural Gas 1 - Liquid Allocation	ENUM16	0→1	Natural Gas (0)	Fluid Type (73)	R/O: Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Station								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
PB_OPT	Base Pressure Selection 0 - User 1 - 14.65 psi(a) 2 - 14.696 psi(a) 3 - 14.73 psi(a) 4 - 15.025 psi(a) 5 - 101.325 kPa(a) 6 - 0.101325 MPa(a) 7 - 1.01325 bar(a)	ENUM16	0→7	14.73 psi(a) (3)	Base Pressure (263)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
PB_USER	User Base Pressure	DOUBLE	≥ 0.0001	14.73	psi(a) (2-0)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
PB_SEL	Selected Base Pressure	DOUBLE		14.73	psi(a) (2-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
TB_OPT	Base Temperature Selection 0 - User 1 - 60°F 2 - 15°C 3 - 20°C 4 - 30°C 5 - 0°C	ENUM16	0→5	60°F (1)	Base Temperature (74)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
TB_USER	User Base Temperature	DOUBLE	-200→ 400	60	°F (3-0)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
TB_SEL	Selected Base Temperature	DOUBLE		60	°F (3-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LATITUDE	Latitude	DOUBLE	-90 → 90	45	° (20-0)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ELEVATION	Elevation	DOUBLE	-100 → 20000	0	ft (8-0)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
ZF_METHOD	Compressibility/Density Calculation 0 - AGA8 1994 Detailed 1 - AGA8 1994 Gross 1 2 - AGA8 1994 Gross 2 3 - ISO12213-2 2009 4 - SGERG 1991 CV/RD/CO2/H2 (Std) 5 - SGERG 1991 CV/RD/N2/H2 6 - SGERG 1991 RD/N2/CO2/H2 7 - SGERG 1991 CV/N2/CO2/H2 8 - ISO12213-3 2006 CV/RD/CO2/H2 (Pref) 9 - ISO12213-3 2006 N2/CV/RD/H2 (Set B) 10 - ISO12213-3 2006 N2/CO2/RD/H2 (Set C) 11 - ISO12213-3 2006 N2/CO2/CV/H2 (Set D) 12 - NX-19 1962 (Z VDI/VDE) 13 - NX-19 Mod 14 - NX-19 VDE/VDI 15 - AGA8 Part 1 2017 Detailed 17 - AGA8 Part 1 2017 Gross 1 18 - AGA8 Part 1 2017 Gross 2 19 - AGA8 Part 2 2017 / GERG 2008 20 -	ENUM16	0→19	AGA8 1994 Detailed (0)	Density/Compress Calc Selection (54)	R/O: Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>



Station								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
HV_METHOD	Heating Value Calc Standard 0 - GPA2172 2009 Gross 1 - ISO6976 1995 Superior 2 - ISO6976 1995 Inferior 3 - AGA5 2009 Gross 5 - AGA5 2009 Net	ENUM16	0→4	GPA2172 2009 Gross (0)	Heating Value Calculation Selection (55)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
HV_MEAS_BASIS	Heating Value Measurement Basis 0 - Volume 1 - Mass	ENUM16	0→1	Volume (0)	HV Measurement Basis (181)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
HV_COMB_REF	Heating Value Combustion Temperature 0 - 60°F 1 - 0°C 2 - 15°C 3 - 20°C 4 - 25°C	ENUM16	0→4	60°F (0)	Heating Value Combustion Reference (56)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2O_CONTENT_BASIS	Water Content Basis  0 - Dry 1 - Saturated at Base Conditions 3 - Partially Saturated	ENUM16	0→3	Dry (0)	H2O Content Basis (70)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2O_CONTENT_METHOD	Water Content Calculation 0 - IGT Bulletin 8	ENUM16	0→0	IGT Bulletin 8 (0)	Water Content Calc Standard (75)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2O_ADJ_OPT	Water Adjustment Option 0 - No Adjustment 1 - Adjust Composition	ENUM16	0→1	No Adjustment (0)	Water Adjustment Option (182)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ATMPR_UMODE	Atm Pressure Mode 1 - Override 2 - Calculated	ENUM16	1→2	Override (1)	User Mode Selection 2 (97)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ATMPR_CALC	Calculated Atm Pressure	DOUBLE	≥ 0	14.696	psi(a) (2-0)	<b>R/O:</b> Admin; Engineer;	2.9.XXX.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
ATMPR_OVRD	Override Atm Pressure	DOUBLE	≥ 0	14.696	psi(a) (2-0)	Meas. Tech Operator; Auditor <b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ATMPR_SEL	Selected Atm Pressure	DOUBLE	≥ 0	14.696	psi(a) (2-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Legal</li> </ul>
GRAV_UMODE	Local Grav Acceleration Mode 1 - Override 2 - Calculated	ENUM16	1→2	Calculated (2)	User Mode Selection 2 (97)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
GRAV_CALC	Calc Local Grav Acceleration	DOUBLE	≥ 0	32.14398	ft/s <sup>2</sup> (19-0)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Legal</li> </ul>
GRAV_OVRD	Override Local Grav Acceleration	DOUBLE	≥ 0	32.14398	ft/s <sup>2</sup> (19-0)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
GRAV_SEL	Selected Local Grav Acceleration	DOUBLE	≥ 0	32.14398	ft/s <sup>2</sup> (19-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Legal</li> </ul>
CALC_FAIL_OPT	Calculation Failure Option 0 - Alarm Disabled 1 - Alarm and Continue 2 - Alarm and Halt Calculation	ENUM16	0→2	Alarm and Continue (1)	Calculation Fault Option (65)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DIFF_PRESS_UNITS	Differential Pressure Units 0 - inH2O@60°F 1 - inH2O@68°F 2 - kPa 3 - mbar 4 - kg/cm <sup>2</sup> 5 - psi 6 - bar	ENUM16	0→6	inH2O@60°F (0)	Differential Pressure Selection (26)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
PRESS_UNITS	Pressure Units 0 - psi	ENUM16	0→4	psi (0)	Pressure (78)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Station								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	1 - kPa 2 - MPa 3 - bar 4 - kg/cm <sup>2</sup>							
TEMP_UNITS	Temperature Units 0 - °F 1 - °C 2 - K	ENUM16	0→2	°F (0)	Temperature (3)	R/O: Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DENS_UNITS	Density Units 0 - lb/ft <sup>3</sup> 1 - kg/m <sup>3</sup> 2 - g/cc 3 - lb/MMCF 4 - lb/US gal 5 - kg/L 6 - lb/bbl 7 - RD 8 - °API	ENUM16	0→8	lb/ft <sup>3</sup> (0)	Gas Density (4)	R/O: Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
O_DENS_UNITS	Oil Density Units 0 - lb/ft <sup>3</sup> 1 - kg/m <sup>3</sup> 2 - g/cc 3 - lb/MMCF 4 - lb/US gal 5 - kg/L 6 - lb/bbl 7 - RD 8 - °API	ENUM16	0→8	°API (8)	Gas Density (4)	R/O: Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
W_DENS_UNITS	Water Density Units 0 - lb/ft <sup>3</sup> 1 - kg/m <sup>3</sup> 2 - g/cc 3 - lb/MMCF 4 - lb/US gal 5 - kg/L	ENUM16	0→8	g/cc (2)	Gas Density (4)	R/O: Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	6 - lb/bbl 7 - RD 8 - °API							
VOL_HV_UNITS	Volume Based Heating Value Units 0 - Btu/ft <sup>3</sup> 1 - MJ/m <sup>3</sup>	ENUM16	0→1	Btu/ft <sup>3</sup> (0)	Volume Heating Value (5)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MASS_HV_UNITS	Mass Based Heating Value Units 0 - Btu/lb 1 - MJ/kg	ENUM16	0→1	Btu/lb (0)	Mass Heating Value (225)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DYN_VISC_UNITS	Viscosity Units 0 - cP 1 - lb/ft-s	ENUM16	0→1	lb/ft-s (1)	Dynamic Viscosity (6)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
H2O_CONTENT_UNITS	Water Content Units 0 - lb/MMSCF 1 - kg/(k)m <sup>3</sup>	ENUM16	0→1	lb/MMSCF (0)	Water Content (21)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LIN_LONG_UNITS	Linear Long Units 0 - ft 1 - m	ENUM16	0→1	ft (0)	Linear (Long) (8)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LIN_SHRT_UNITS	Linear Short Units 0 - in 1 - mm	ENUM16	0→1	in (0)	Linear (Short) (7)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
VOL_TOT_UNITS	Volume Units for Totals 0 - ft <sup>3</sup> 1 - m <sup>3</sup> 2 - MCF 3 - (k)m <sup>3</sup> 4 - MMCF 5 - BCF 6 - L 7 - US gal 8 - bbl	ENUM16	0→8	MCF (2)	Volume Total (9)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
O_VOL_TOT_UNITS	Oil Volume Total Units 0 - ft <sup>3</sup>	ENUM16	0→8	bbl (8)	Volume Total (9)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

Station								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	1 - m <sup>3</sup> 2 - MCF 3 - (k)m <sup>3</sup> 4 - MMCF 5 - BCF 6 - L 7 - US gal 8 - bbl							
W_VOL_TOT_UNITS	Water Volume Total Units 0 - ft <sup>3</sup> 1 - m <sup>3</sup> 2 - MCF 3 - (k)m <sup>3</sup> 4 - MMCF 5 - BCF 6 - L 7 - US gal 8 - bbl	ENUM16	0→8	bbl (8)	Volume Total (9)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MASS_TOT_UNITS	Mass Units for Totals 0 - lb 1 - kg 2 - Mlb 3 - tonne 4 - ton	ENUM16	0→4	Mlb (2)	Mass Total (10)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ENERGY_TOT_UNITS	Energy Units for Totals 0 - Btu 1 - MMBtu 2 - J 3 - MJ 4 - GJ 5 - Dth 6 - TJ 7 - PJ	ENUM16	0→7	MMBtu (1)	Energy Total (11)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
VOL_RATE_UNITS	Volume Units for Rates 0 - ft <sup>3</sup> /s	ENUM16	0→35	MCF/d (7)	Volume Rate (12)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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	1 - ft <sup>3</sup> /min							
	2 - ft <sup>3</sup> /h							
	3 - ft <sup>3</sup> /d							
	4 - MCF/s							
	5 - MCF/min							
	6 - MCF/h							
	7 - MCF/d							
	8 - m <sup>3</sup> /s							
	9 - m <sup>3</sup> /min							
	10 - m <sup>3</sup> /h							
	11 - m <sup>3</sup> /d							
	12 - (k)m <sup>3</sup> /s							
	13 - (k)m <sup>3</sup> /min							
	14 - (k)m <sup>3</sup> /h							
	15 - (k)m <sup>3</sup> /d							
	16 - MMCF/s							
	17 - MMCF/min							
	18 - MMCF/h							
	19 - MMCF/d							
	20 - BCF/s							
	21 - BCF/min							
	22 - BCF/h							
	23 - BCF/d							
	24 - L/s							
	25 - L/min							
	26 - L/h							
	27 - L/d							
	28 - US gal/s							
	29 - US gal/min							
	30 - US gal/h							
	31 - US gal/d							
	32 - bbl/s							
	33 - bbl/min							
	34 - bbl/h							
	35 - bbl/d							

Station								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
O_VOL_RATE_UNITS	Oil Volume Rate Units 0 - ft <sup>3</sup> /s 1 - ft <sup>3</sup> /min 2 - ft <sup>3</sup> /h 3 - ft <sup>3</sup> /d 4 - MCF/s 5 - MCF/min 6 - MCF/h 7 - MCF/d 8 - m <sup>3</sup> /s 9 - m <sup>3</sup> /min 10 - m <sup>3</sup> /h 11 - m <sup>3</sup> /d 12 - (k)m <sup>3</sup> /s 13 - (k)m <sup>3</sup> /min 14 - (k)m <sup>3</sup> /h 15 - (k)m <sup>3</sup> /d 16 - MMCF/s 17 - MMCF/min 18 - MMCF/h 19 - MMCF/d 20 - BCF/s 21 - BCF/min 22 - BCF/h 23 - BCF/d 24 - L/s 25 - L/min 26 - L/h 27 - L/d 28 - US gal/s 29 - US gal/min 30 - US gal/h 31 - US gal/d 32 - bbl/s 33 - bbl/min	ENUM16	0→35	bbl/d (35)	Volume Rate (12)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	34 - bbl/h 35 - bbl/d							
W_VOL_RATE_UNIT S	Water Volume Rate Units 0 - ft <sup>3</sup> /s 1 - ft <sup>3</sup> /min 2 - ft <sup>3</sup> /h 3 - ft <sup>3</sup> /d 4 - MCF/s 5 - MCF/min 6 - MCF/h 7 - MCF/d 8 - m <sup>3</sup> /s 9 - m <sup>3</sup> /min 10 - m <sup>3</sup> /h 11 - m <sup>3</sup> /d 12 - (k)m <sup>3</sup> /s 13 - (k)m <sup>3</sup> /min 14 - (k)m <sup>3</sup> /h 15 - (k)m <sup>3</sup> /d 16 - MMCF/s 17 - MMCF/min 18 - MMCF/h 19 - MMCF/d 20 - BCF/s 21 - BCF/min 22 - BCF/h 23 - BCF/d 24 - L/s 25 - L/min 26 - L/h 27 - L/d 28 - US gal/s 29 - US gal/min 30 - US gal/h 31 - US gal/d	ENUM16	0→35	bbl/d (35)	Water Volume Rate (299)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>



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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	32 - bbl/s 33 - bbl/min 34 - bbl/h 35 - bbl/d							
MASS_RATE_UNITS	Mass Units for Rates 0 - lb/s 1 - lb/min 2 - lb/h 3 - lb/d 4 - Mlb/s 5 - Mlb/min 6 - Mlb/h 7 - Mlb/d 8 - kg/s 9 - kg/min 10 - kg/h 11 - kg/d 12 - tonne/s 13 - tonne/min 14 - tonne/h 15 - tonne/d 16 - ton/s 17 - ton/min 18 - ton/h 19 - ton/d	ENUM16	0→19	Mlb/d (7)	Mass Rate (13)	R/O: Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ENERGY_RATE_UNITS	Energy Units for Rates 0 - Btu/s 1 - Btu/min 2 - Btu/h 3 - Btu/d 4 - MMBtu/s 5 - MMBtu/min 6 - MMBtu/h 7 - MMBtu/d 8 - J/s	ENUM16	0→31	MMBtu/d (7)	Energy Rate (14)	R/O: Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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	9 - J/min							
	10 - J/h							
	11 - J/d							
	12 - MJ/s							
	13 - MJ/min							
	14 - MJ/h							
	15 - MJ/d							
	16 - GJ/s							
	17 - GJ/min							
	18 - GJ/h							
	19 - GJ/d							
	20 - Dth/s							
	21 - Dth/min							
	22 - Dth/h							
	23 - Dth/d							
	24 - TJ/s							
	25 - TJ/min							
	26 - TJ/h							
	27 - TJ/d							
	28 - PJ/s							
	29 - PJ/min							
	30 - PJ/h							
	31 - PJ/d							
VOL_KF_UNITS	Volumetric K-factor Units 0 - pulses/ft <sup>3</sup> 1 - pulses/m <sup>3</sup> 2 - pulses/US gal 3 - pulses/bbl	ENUM16	0→3	pulses/ft <sup>3</sup> (0)	Volumetric K-Factor (27)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MASS_KF_UNITS	Mass K-factor Units 0 - pulses/lb 1 - pulses/kg	ENUM16	0→1	pulses/lb (0)	Mass K-Factor (28)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
UVOL_RATE	Uncorrected Volume Flow Rate	DOUBLE		0	MCF/d (12-7)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.9.XXX.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SVOL_RATE	Corrected Volume Flow Rate	DOUBLE		0	MCF/d (12-7)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.9.XXX.XXX	Legal
MASS_RATE	Mass Flow Rate	DOUBLE		0	Mlb/d (13-7)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.9.XXX.XXX	Legal
ENERGY_RATE	Energy Flow Rate	DOUBLE		0	MMBtu/d (14-7)	<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.9.XXX.XXX	Legal
UVOL_RAW_TOT	Uncorrected Volume Total	DOUBLE		0	MCF (9-2)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	Legal
SVOL_RAW_TOT	Corrected Volume Total	DOUBLE		0	MCF (9-2)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	Legal
MASS_RAW_TOT	Mass Total	DOUBLE		0	Mlb (10-2)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	Legal
ENERGY_RAW_TOT	Energy Total	DOUBLE		0	MMBtu (11-1)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	Legal
UVOL_TOT_OBJ	Uncorrected Volume Total Object	ObjectRef	Total	Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SVOL_TOT_OBJ	Corrected Volume Total Object	ObjectRef	Total	Varies by instance		<b>R/O:</b> Admin; Engineer;	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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MASS_TOT_OBJ	Mass Total Object	ObjectRef	Total	Varies by instance		Meas. Tech; Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ENERGY_TOT_OBJ	Energy Total Object	ObjectRef	Total	Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FLW_ALM_OBJ	Flow Alarm Object	ObjectRef		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
BUYER	Custody Transfer Buyer	UC40		Undefined		<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SELLER	Custody Transfer Seller/Producer	UC40		Undefined		<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
STN_ID1	Station Identifier 1	UC20		Undefined		<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
STN_ID2	Station Identifier 2	UC20		Undefined		<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LIQ_PROD_OBJ	Liquid Product Object	ObjectRef		Instance: "Liq Prod_X" (where X is instance number between 1 and 36)		<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OIL_METHOD	Oil Flow Calculation Method 0 - API Ch 12.2 1 - API Ch 20.1	ENUM16	0□1	0		<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
WATER_OPT	API Ch 20.1 Water Option 0 – Use Oil Correction Factor for Water 1 – Use Separate Correction Factor for Water	ENUM16	0□1	0		<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DENSB_SEL	Selected Base Denstiy	DOUBLE		0	°API (294-8)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	Legal
GVOL_RATE	Gross Volume Flow Rate	DOUBLE		0	bbl/d (298-35)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	Legal
SVOL_O_RATE	Net Standard Volume Flow Rate	DOUBLE		0	bbl/d (298-35)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	Legal
SVOL_W_RATE	Net Water Flow Rate	DOUBLE		0	bbl/d (299-35)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	Legal
GVOL_RAW_TOT	Gross Volume Total	DOUBLE		0	bbl (296-8)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	Legal
SVOL_O_RAW_TOT	Net Standard Volume Total	DOUBLE		0	bbl (296-8)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	Legal
SVOL_W_RAW_TOT	Net Water Volume Total	ObjectRef		0	bbl (297-8)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	Legal
GVOL_TOT_OBJ	Gross Volume Total Object	ObjectRef		Varies by instance		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	Legal
SVOL_O_TOT_OBJ	Net Standard Volume Total Object	ObjectRef		Varies by instance		R/O: Admin; Engineer;	2.9.XXX.XXX	Legal

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SVOL_W_TOT_OBJ	New Water Volume Total Object	ObjectRef		Varies by instance		Meas. Tech; Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor		Legal
DENS_OPT	Density Option 0 - Station Base Density from Product 1 - Meter Observed Density 2 - Station Header Density	ENUM16	0-2	1	Density Option (320)	<b>R/O:</b> Operator; Auditor		<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DENSH_OBJ	Header Density Object	ObjectRef	Liq Dens	Undefined		<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DENSH_INUSE	In Use Header Density	DOUBLE		0	°API (294-8)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	Legal
TH_INUSE	In Use Header Temperature	DOUBLE		0	°F (3-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	Legal
PH_INUSE	In Use Header Pressure	DOUBLE		0	psi(g) (29-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.XXX.XXX	Legal
ROUND_OPT	Rounding Option 0 - No Rounding 1 - Rounding Per API 12.2	ENUM16	0-1	Rounding Per API 12.2 (1)	Rounding Option (280)	<b>R/O:</b> Operator; Auditor	2.9.XXX.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
SF_OPT	Shrinkage Factor Option 0 - Apply to Gross Standard Volume 1 - Apply to Net Standard Volume	ENUM16	0->1	Apply to Gross Standard Volume(0)	Shrinkage Factor Option (354)	<b>R/O:</b> Operator; Auditor		<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
FLWTM_UNITS	Flow Time Units 0 - s	ENUM16	0->1	s (0)	Flow Time Units (359)	<b>R/O:</b> Operator; Auditor		<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	1 - min							
FAULT_CONFIG	Fault Health Configuration 0 - Normal 1 - Fault	BIN16		Fault, Calculation Alarms, Flow Rate Alarms, Config Checksum Fault, System Fault	Fault Health Configuration (360)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
BATCH_ID	Batch Identifier	UC20		Undefined		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.12.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
BATCH_TRIG_OPT	Batch Trigger Options	BIN16	0->1	0	Batch Trigger Options (361)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.12.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
BATCH_START_CMD	Batch Start Command	ENUM16	0->1	0	Start Batch Command (362)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.12.0.XXX	
BATCH_END_CMD	Batch End Command	ENUM16	0->1	0	End Batch Command (363)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.12.0.XXX	
OP_STATUS	Operation Status	BIN32		0	Station Status (331)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.12.0.XXX	Legal
PREV_BATCH_START_TM	Previous Batch Start Time	TIME		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.12.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
PREV_BATCH_END_TM	Previous Batch End Time	TIME		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.12.0.XXX	Legal
CUR_BATCH_START_TM	Current Batch Start Time	TIME		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.12.0.XXX	Legal
PER_HIST_OPT	Hourly History Option	ENUM16	0 -> 2	0	History Option (332)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.13.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
DAY_HIST_OPT	Daily History Option	ENUM16	0 -> 2	0	History Option (332)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.13.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
WK_HIST_OPT	Weekly History Option	ENUM16	0 -> 2	0	History Option (332)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.13.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MNTH_HIST_OPT	Monthly History Option	ENUM16	0 -> 2	0	History Option (332)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.13.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
BATCH_OPT	Batch Option	ENUM16	0 -> 1	1	Batch Option (333)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.13.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
BATCH_START_PAR AM	Batch Start Parameter	PRMREF		Undefined		<b>R/W:</b> Admin; Engineer;	2.13.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>



Station								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
BATCH_END_PARAMETER	Batch Start Parameter	PRMREF		Undefined		Meas. Tech <b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.13.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

## 5.63 SysLog

**Description:** The SysLog object provides the parameters for configuring the system logs.

**Number of Instances:** 1 instance may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-62: SysLog Parameters**

System								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		System Log		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
IPV4_ADDRESS	IPv4 IP Address	BYTE4		0x00000000		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		Log Changes

System								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SERVER_PORT	Server IP Port	UINT16		514		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		Log Changes
LOG_DIAG	Log Diag	ENUM16	0->1		Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		
LOG_EVENTS	Log Events	ENUM16	0->1		Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		
LOG_ALARMS	Log Alarms	ENUM16	0->1		Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		
SYSLOG_INST	SysLog Interface	ENUM16	1->2	1	Link (404)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		
LOG_DNP_SECURITY	Log DNP3 Security Log	ENUM16	0->1		Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor		

## 5.64 System Parameters

- Description:** The System object provides the parameters for configuring and viewing information on the system as a whole.
- Number of Instances:** 1 instance may exist.
- Storage Location:** Saved to internal configuration memory.

**Table 5-63: System Parameters**

System								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		System		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
PROD_TYPE	Product Type 0 - FB1100 1 - FB1200 2 - FB2100 3 - FB2200 4 - FB3000 5 - I/O Scanner	ENUM16		FB1100 (0)	Product Type (93)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	

System								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
PROD_DESC	Product Description	UC40		RTU		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
SITE_NAME	Site Name	UC40		Undefined		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	
DEV_TEST_DATE	Device Test Date	Time		Undefined		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
DEV_SER_NUM	Device Serial Number	UC30		Undefined		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
CONN_TEST_DATE	Connectivity Board Test Date	Time		Undefined		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
CONN_SER_NUM	Connectivity Board Serial Number	UC30		Undefined		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
PKG_VER	Package Version	UC20		1.0.0.0		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
MAX_STN	Max Number Stations	UINT32	0→24	1		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
MAX_STRM	Max Number Streams	UINT32	0→24	1		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
MAX_PID	Max Number PID	UINT32	0→24	0		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
NUM_ALM	Number Alarm Records	UINT32	1000→ 2500	1000		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
NUM_EVT	Number Event Records	UINT32	1000→ 2500	1000		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
NUM_WM_EVT	Number W&M Events	UINT32	1000→ 2500	1000		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
MPU_LOAD	MPU Loading	FLOAT	0→100	0	%(18-0)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
SYS_INTEG	System Integrity 0 - Normal 1 - Alarm 2 - Fault	BIN32		Normal	Composite System Integrity (33)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
RESTART_TM	Restart Time	Time		Undefined		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
BATT_TYPE	Battery Type 0 - None 1 - Lithium	ENUM16		None (0)	Battery Type (72)	R/O: Admin; Engineer;	2.0.0.XXX	

System								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
MFG_ID	2 - Lead Acid 3 - Not Applicable Manufacturer ID	UC20		Emerson		Meas. Tech; Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
MODEL_SPEC_1	Model Specification 1	UC40		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
MODEL_SPEC_2	Model Specification 2	UC40		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
MODEL_SPEC_3	Model Specification 3	UC40		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
CPU_TEMP	CPU Temperature	FLOAT		0	°F (3-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
EVT_CONF_TYPE	Event Log Configuration Type 0 - Combined Event Log 1 - Separate Legal and Non-Legal Event Logs 2- Separate Verifiable & Exportable Logs 3 – BSAP Combined Event Alarm Log	ENUM16	0→3	Combined Event Log (0)	Event Log Config Type (246)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Verified</li> <li>▪ Legal</li> </ul>
DB_RECOVERY_OPTION	Database Recovery Option 0 - Restore to Database Defaults	ENUM16	0→1	Restore to Database Defaults (0)	Database Recovery Option (256)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	1 - Restore from Flash Config File					<b>R/O:</b> Operator; Auditor		
CURRENT_CPU_FREQ	Current CPU Frequency 0 - Low Frequency 1 - Medium Frequency 2 - High Frequency	ENUM16	0→2	Low Frequency (0)	CPU Frequency Level (261)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
FLASH_CONFIG_CREATED	Flash Config Created Time	Time		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Log Changes
NUM_SYSTEM_RESTARTS	Number of Restarts Performed By System	UINT16		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
RADIO_POWER_ENABLE	Radio Power Enable 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	
ACTIVE_DNP3_MAP	Active DNP3 Map 0 - Default 1 - User Defined	ENUM16	0→1	Default (0)	Active DNP3 Map (265)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NUM_FREE_INST	Number of Free Instances	UINT32	0→ 9110	0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
NUM_FREE_SMALL_CHUNK	Number of Free Small Chunk Blocks	UINT32	0→ 272580	0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
NUM_FREE_MED_CHUNK	Number of Free Medium Chunk Blocks	UINT32	0→ 35230	0		<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	



System								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
NUM_FREE_BIG_CHUNK	Number of Free Big Chunk Blocks	UINT32	0→14180	0		Meas. Tech; Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
NUM_FREE_PRM_TR_TBL	Number of Free Params in Translator Tbl	UINT32	0→22000	0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
NUM_FREE_PRM_REFS	Number of Free Params Type PRMRef	UINT32	0→24000	0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
NUM_FREE_OBJ_REFS	Number of Free Params Type OBJRef	UINT32	0→18000	0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
FLASH_USED	Number of File System bytes used	UINT32		0	Kilobytes (267-1)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
FLASH_FREE	Number of File System bytes free	UINT32		0	Kilobytes (267-1)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
SYSTEM_MEMORY_USED	Number of System Memory bytes used	UINT32		0	Kilobytes (267-1)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
SYSTEM_MEMORY_FREE	Number of System Memory bytes free	UINT32		0	Kilobytes (267-1)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
HOME_SCREEN	Home Screen	UC40				<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.4.0.XXX	Log Changes
VERIFICATION_STATUS	System Verification Status 0 - System Unverified 1 - System Verified	ENUM16	0→1	System Unverified (0)	System Verification Status (350)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
VERIFICATION_TIME	Verification Time	TIME				<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	
LEGAL_EVT_LOCK_STAT	Legal Event Lock Status 0 - Unlocked 1 - Locked	ENUM16	0→1	Unlocked (0)	Legal Event Lock Status (355)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LEGAL_EVT_LOCK_TIME	Legal Event Lock Time	TIME				<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.5.0.XXX	
EVT_LAST_EXPORT_TIME	Legal Event Last Export Time	TIME				<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.6.0.XXX	Log Changes
DB_EXT_FILE_STAT	Database Save Params to Flash File	ENUM16	0->1	Disabled (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.9.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
MBUS_MAP_USE_CSV	Modbus Mapping using CSV Files	ENUM16	0->1	Database Objects (0)	CSV Option (367)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.9.0.XXX	

System								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
MBUS_MAP_STATU S	Modbus Mapping file status	BIN32				<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.0.XXX	
MBUS_MAP_CSV_B USY	Reload Modbus Map	ENUM16	0->1	Ready (0)	Reloading Maps (369)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.9.0.XXX	
CHECK_INTERVAL	Checksum Interval	UINT16	1- >1440			<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.9.0.XXX	
SYSTEM_FIRMWARE	Firmware Checksum State	ENUM16	0->3	Disabled (0)	Integrity Status (370)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.0.XXX	
VERIFY_OPT	Verification Checksum	ENUM16	0->1	Disabled (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.9.0.XXX	
FIRMWARE_CHECK	Firmware Checksum	UINT32		Hex	Hexadecimal Data (373)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.0.XXX	
CONFIG_CHECK	Configuration Checksum	UINT32		Hex	Hexadecimal Data (373)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.0.XXX	
CONFIG_CHECK_CO UNT	Config Change Count	UINT32				<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.0.XXX	

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System								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CONFIG_CHECK_C MP	Saved Config Checksum	UINT32		Hex	Hexidecimal Data (373)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.0.XXX	
CONFIG_CHECK_ST ATE	Config Checksum State	ENUM16	0->4	Disabled (0)	Integrity Status (372)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.9.0.XXX	
EFM_ARCH_USE_CS V	EFM Archive Mapping using CSV	ENUM16	0->1	Database Objects(0)	CSV Option (367)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	
EFM_ARCH_STATUS	EFM Archive Mapping file status	BIN32				<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.11.0.XXX	
EFM_ARCH_CSV_BU SY	Reload EFM Archive Map	ENUM16	0->1	Ready (0)	Reloading Maps (369)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	
MAX_NUM_PRM_RE F	Max Num of PRMREF in the System	UINT32				<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.11.0.XXX	
MAX_NUM_OBJ_REF	Max Num of OBJREF in the System	UINT32				<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.11.0.XXX	
TRACING	Trace Enable	ENUM16	0->4	Ready (0)	Trace Status (381)	<b>R/W:</b> Admin; Engineer; <b>R/O:</b> Meas. Tech; Operator; Auditor	2.11.0.XXX	

System								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DATA_MAP_ENABLE	Data Model Mapping	ENUM16	0->1	0	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; <b>R/O:</b> Meas. Tech; Operator; Auditor	2.12.0.XXX	Log Changes
DATA_MAP_STATUS	Data Model file status	BIN32		0	Csv Parse Status (368)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.12.0.XXX	
DATA_MAP_BUSY	Reload Data Model Map	EUNM16	0->1	0	Reloading Maps (369)	<b>R/W:</b> Admin; Engineer; <b>R/O:</b> Meas. Tech; Operator; Auditor	2.12.0.XXX	Log Changes
DB_INST_CHANGE_CNT	Database Instance Change Counter	UINT16		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.14.0.XXX	Log Changes

## 5.65 System Pwr Parameters

**Description:** The System Pwr (Power) object provides the parameters for monitoring the health of the batteries and configuring loop power.

**Number of Instances:** 1 instance may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-64: System Power Parameters**

System Power								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		System Pwr		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20		System Power		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

System Power								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
EXT_VOLT_VAL	External Voltage	FLOAT		0	V (16-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
EXT_VOLT_ALM	External Voltage Alarm	ObjectRef		Alarm_32001		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
BATT_CHNG	Indicate Battery has been Changed 0 - No Change 1 - Battery Replaced 2 - SRAM Battery Replaced 3 - PS SRAM Battery Replaced	ENUM16	0→3	No Change (0)	Battery Change (154)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OPER_TRIP_POINT	Operating Trip Point 1 - Solar Supply 2 - DC Supply	ENUM16	0→2	DC Supply (2)	Operational Trip Point 3000 (301)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> <li>▪ Verified</li> </ul>
SRAM_BATT_STATUS	SRAM Battery Status 0 - Battery Normal 1 - Battery Failure or Removal	ENUM16		Battery Normal (0)	SRAM Battery Status (153)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SRAM_BATT_RUNTIME	SRAM Battery In Use	UINT16		0	d (17-3)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SRAM_BATT_CHNG_TIME	SRAM Battery Change Date/Time	TIME		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SRAM_PS_BATT_STATUS	SRAM PS Battery Status 0 - Battery Normal	ENUM16		Battery Normal (0)	SRAM Battery Status (153)	<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	Legal

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System Power								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	1 - Battery Failure or Removal					Meas. Tech; Operator; Auditor		
SRAM_PS_BATT_RUNTIME	SRAM PS Battery In Use	UINT16		0	d (17-3)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SRAM_PS_BATT_CHG_TM	SRAM PS Battery Change Date/Time	TIME		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
EXT_CURRENT_VAL	CPU Current Value	FLOAT		0	mA (15-0)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal



## 5.66 Total Parameters

**Description:** The Total object provides the parameters for viewing periodic and cumulative totals and for configuring cumulative rollover values.

**Number of Instances:** 1380 instances may exist (varies with number and type of configured meter runs).

**Storage Location:** Saved to internal configuration memory.

**Table 5-65: Total Parameters**

Total								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	
DESC	Description	UC20		Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
RAW_PARAM	Input to Totalize	ParamRef		Varies by instance		<b>R/O:</b> Admin; Engineer;	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

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Total								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CURRENT	Current Accumulated Total	DOUBLE		0	Varies by instance	Meas. Tech; Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
ROLLOVER	Rollover Value	DOUBLE	≥ 0	1.00E+12	Varies by instance	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ROLLOVER_COUNT	Non-resettable Rollover Count	UINT32		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SNAPSHOT	Value of Input at Last Period End	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SNAP_TIME	Timestamp of Last Period End	Time				<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	Legal
CUR_PER	Current Hour Total	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
PREV_PER	Previous Hour Total	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
CUR_DAY	Current Day Total	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

<b>Total</b>								
<b>Name</b>	<b>Description of functionality and meaning of values</b>	<b>Data Type</b>	<b>Range</b>	<b>Default</b>	<b>Default Measurement Type (Table #)</b>	<b>Access (by Role)</b>	<b>Version</b>	<b>Other Attributes</b>
PREV_DAY	Previous Day Total	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
CUR_WK	Current Week Value	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
PREV_WK	Previous Week Value	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
CUR_MNTH	Current Month Total	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
PREV_MNTH	Previous Month Total	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
CUR_BATCH	Current Batch Total	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.12.0.XXX	Legal
PREV_BATCH	Previous Batch Total	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.12.0.XXX	Legal
PREV_BATCH_START	Value of Input at Previous Batch Start	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.12.0.XXX	Legal
PREV_BATCH_END	Value of Input at Previous Batch End	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer;	2.12.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
CUR_BATCH_START	Value of Input at Current Batch Start	DOUBLE		0	Varies by instance	Meas. Tech; Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.12.0.XXX	Legal
CUR_DAY_START	Value of Input at Current Day Start	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.13.0.XXX	Legal
PREV_DAY_START	Value of Input at Previous Day Start	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.13.0.XXX	Legal
CUR_MNTH_START	Value of Input at Current Month Start	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.13.0.XXX	Legal
PREV_MNTH_START	Value of Input at Previous Month Start	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.13.0.XXX	Legal
CUR_PER_START	Value of Input at Current Hour Start	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.13.0.XXX	Legal
PREV_PER_START	Value of Input at Previous Hour Start	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.13.0.XXX	Legal
CUR_WK_START	Value of Input at Current Week Start	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.13.0.XXX	Legal

Total								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
PREV_WK_START	Value of Input at Previous Week Start	DOUBLE		0	Varies by instance	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.13.0.XXX	Legal

## 5.67 TransHConfig Parameters

**Description:** The TransHConfig object provides the parameters for transactional history configuration

**Number of Instances:** 1 instance may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-66: TransHConfig Parameters**

TransHConfig								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		User Acct		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	Legal
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.11.0.XXX	
DESC	Description	UC20		Trans Hist Config		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NUM_REQ_TRANS_GRP	Num of Req Transaction Groups	UINT8	0->100	0		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.11.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>

TransHConfig								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TRANS_GRP_MAX_NUM_PT	Max Num of Trans Pts in Group	UINT16	0->650	650		R/O: Operator; Auditor	2.11.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
NUM_CUR_TRANS_GRP	Num of Current Transaction Groups	UINT8	0->100	0		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.11.0.XXX	Log Changes
TRANS_GRP_CONF_STAT	Transaction Group Config Status	ENUM16	0->1	0	Trans Grp Conf Stat (375)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.11.0.XXX	Log Changes
TRANS_STATUS	Transaction History Status	ENUM16	0->1	0	Trans Hist Status (380)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.11.0.XXX	Log Changes

## 5.68 TransHGrp Parameters

**Description:** The TransHGrp object provides the parameters for transactional history group

**Number of Instances:** 100 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-67: TransHGrp Parameters**

TransHGrp								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		User Acct		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	Legal
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	Legal
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.11.0.XXX	Legal
DESC	Description	UC20		Varies by instance		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	Legal
TRANS_CUR_NUM_STR_PT	Current String Pts	UINT8	0->25	0		<b>R/O:</b> Admin; Engineer;	2.11.0.XXX	Legal



TransHGrp								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TRANS_CUR_NUM_NRC_PT	Current Numeric Pts	UINT16	0->650	0		Meas. Tech; Operator; Auditor <b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.11.0.XXX	Legal
TRANS_CUR_NUM_RCD	Current Trans Recs	UINT16	200-> 65000	200		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.11.0.XXX	Legal
TRANS_REQ_NUM_STR_PT	Requested String Pts	UINT8	0->25	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	Legal
TRANS_REQ_NUM_NRC_PT	Requested Numeric Pts	UINT16	0->650	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	Legal
TRANS_REQ_NUM_RCD	Requested Trans Recs	UINT16	200-> 65000	200		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	Legal
TRANS_LOG_ENB	Enable Trans Logging	ENUM16	1	1	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	Legal
TRANS_LOG_ALM_ENB	Enable Trans Alarm	ENUM16	0	0	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	Legal

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TransHGrp								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TRANS_FULL_LIM	Trans Log Full Rem Recs	UINT16		1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	Legal
TRANS_NEAR_LIM	Trans Log Near Full Rem Recs	UINT16		1		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	Legal
TRANS_LOG_ALM	Log Alarm Status	BIN32		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.11.0.XXX	Legal
TRANS_LAST_READ_SEQ	Sequence Number Last Read Record	UINT32		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	Legal
TRANS_NUM_LOST_RCD	Num Of Lost Records	UINT32		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.11.0.XXX	Legal
TRANS_START_HIST_OBJ	Transaction Start History Object	OBJREF		Varies by instance		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.11.0.XXX	
TRANS_CONF_CHN_G_CNTR	Transaction Config change counter	UINT8		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.11.0.XXX	
TRANS_RECORD_S_UBTYPE	Transaction Record Subtype	BIN8	0->7	0	Trans Trigger SubType (377)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.11.0.XXX	Legal

TransHGrp								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TRANS_TRIG_STAT_US	Transaction Trigger Status	BIN16		0	Trans Trigger Status (378)	R/O: Operator; Auditor	2.11.0.XXX	Legal
TRANS_TRIG_SIGN_AL	Transaction Trigger Signal	ENUM16	0->3	0	Trans Trigger Signal (379)	R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech	2.11.0.XXX	<ul style="list-style-type: none"> <li>Log Changes</li> <li>Legal</li> </ul>
TRANS_ID	Transaction Id	UC20		Varies by instance		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech	2.11.0.XXX	Log Changes
TRANS_GROUP_USE_TYPE	Group Use Type	ENUM16	0->105	0	Trace Status (382)	R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech	2.11.0.XXX	Log Changes
TRANS_GROUP_USE_INST	Group Use Instance	UINT16	0->100	0		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech	2.11.0.XXX	Legal
TRANS_LOG_BUSY	Transaction Busy	ENUM16	0->1	0	Enable/Disable Selection (30)	R/O: Operator; Auditor Admin; Engineer; Meas. Tech	2.12.0.XXX	Legal
LATEST_SEQ_NUM	Latest Sequence Number	UINT32		0		R/O: Operator; Auditor Admin; Engineer; Meas. Tech	2.14.0.XXX	Legal

## 5.69 TransHist

**Description:** The TransHist object provides the parameters for transactional history

**Number of Instances:** 3100 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-68: TransHist Parameters**

TransHist								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		User Acct		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	<ul style="list-style-type: none"> <li>Log Changes</li> <li>Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	Log Changes
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.11.0.XXX	Legal
DESC	Description	UC20				<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	<ul style="list-style-type: none"> <li>Log Changes</li> <li>Legal</li> </ul>
TRANS_HIST_GRP_OBJ		OBJREF		Undefined		<b>R/O:</b> Admin; Engineer;	2.11.0.XXX	

TransHist								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
TRANS_HIST_PARAM		PRMREF		Undefined		Meas. Tech; Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.11.0.XXX	<ul style="list-style-type: none"> <li>Log Changes</li> <li>Legal</li> </ul>
TRANS_HIST_TYPE		ENUM16	0->6	2	History Type (43)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.12.0.XXX	<ul style="list-style-type: none"> <li>Log Changes</li> <li>Legal</li> </ul>
TRANS_HIST_DATA_TYPE		ENUM16	0->1	0	Trans Hist Data Format (374)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.11.0.XXX	

## 5.70 User Acct Parameters

**Description:** The User Acct object provides the parameters for user accounts.

**Number of Instances:** 103 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-69: User Acct Parameters**

UserAcct								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		User Acct		<b>N/A:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>N/A:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>N/A:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
ID	User Identifier	UC30		Undefined		<b>N/A:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
PASSWORD	Password	ByteArray 32		Undefined		<b>N/A:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

UserAcct								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
PIN	PIN Code	ByteArray 32		Undefined		<b>N/A:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
LOCAL_PREF	Localization Preferences	ObjectRef	Local	Local_1		<b>N/A:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
ROLE	Role	ObjectRef	Role	Role_1		<b>N/A:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
PIN_ENB	PIN Enable 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>N/A:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SALT	SALT	ByteArray3 2		Undefined		<b>N/A:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
ACCT_TYPE	Account Type 0 - User 1 - Internal	ENUM16	0→1	Internal (1)	Account Type (81)	<b>N/A:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
PROTOCOL	Protocol 0 - None 1 - DNP3 2 - Modbus	ENUM16	0→4	None (0)	Protocol (293)	<b>N/A:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

## 5.71 User Data Parameters

**Description:** The User Data object provides the parameters for configuring the global data storage area.

**Number of Instances:** 50 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-70: User Data Parameters**

UserData								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "User Data_X" (where X is instance number between 1 and 50)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_AREA	Area Assignment	UINT8	0 -> 5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
OBJ_STATUS	Status	BIN32		Undefined		<b>R/O:</b> Admin; Engineer; Meas. Tech Operator; Auditor	2.0.0.XXX	
DESC	Description	UC40		Instance: "User Data_X" (where X is instance number between 1 and 50)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FLOAT_1	Floating Point 1	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes



UserData								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FLOAT_2	Floating Point 2	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FLOAT_3	Floating Point 3	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FLOAT_4	Floating Point 4	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FLOAT_5	Floating Point 5	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FLOAT_6	Floating Point 6	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FLOAT_7	Floating Point 7	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FLOAT_8	Floating Point 8	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

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UserData								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FLOAT_9	Floating Point 9	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FLOAT_10	Floating Point 10	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FLOAT_11	Floating Point 11	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FLOAT_12	Floating Point 12	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FLOAT_13	Floating Point 13	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FLOAT_14	Floating Point 14	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FLOAT_15	Floating Point 15	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

UserData								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
FLOAT_16	Floating Point 16	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FLOAT_17	Floating Point 17	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FLOAT_18	Floating Point 18	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FLOAT_19	Floating Point 19	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
FLOAT_20	Floating Point 20	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DOUBLE_1	Double Floating Point 1	DOUBLE		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DOUBLE_2	Double Floating Point 2	DOUBLE		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

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UserData								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DOUBLE_3	Double Floating Point 3	DOUBLE		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DOUBLE_4	Double Floating Point 4	DOUBLE		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DOUBLE_5	Double Floating Point 5	DOUBLE		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DOUBLE_6	Double Floating Point 6	DOUBLE		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DOUBLE_7	Double Floating Point 7	DOUBLE		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DOUBLE_8	Double Floating Point 8	DOUBLE		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
DOUBLE_9	Double Floating Point 9	DOUBLE		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

UserData								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DOUBLE_10	Double Floating Point 10	DOUBLE		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
LONG_1	Long Integer 1	UINT32		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
LONG_2	Long Integer 2	UINT32		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
LONG_3	Long Integer 3	UINT32		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
LONG_4	Long Integer 4	UINT32		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
LONG_5	Long Integer 5	UINT32		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
LONG_6	Long Integer 6	UINT32		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

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UserData								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
LONG_7	Long Integer 7	UINT32		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
LONG_8	Long Integer 8	UINT32		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
LONG_9	Long Integer 9	UINT32		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
LONG_10	Long Integer 10	UINT32		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
SHORT_1	Short Integer 1	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
SHORT_2	Short Integer 2	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
SHORT_3	Short Integer 3	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

UserData								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SHORT_4	Short Integer 4	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
SHORT_5	Short Integer 5	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
SHORT_6	Short Integer 6	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
SHORT_7	Short Integer 7	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
SHORT_8	Short Integer 8	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
SHORT_9	Short Integer 9	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
SHORT_10	Short Integer 10	UINT16		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

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UserData								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
BYTE_1	Byte Integer 1	UINT8		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
BYTE_2	Byte Integer 2	UINT8		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
BYTE_3	Byte Integer 3	UINT8		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
BYTE_4	Byte Integer 4	UINT8		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
BYTE_5	Byte Integer 5	UINT8		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
BYTE_6	Byte Integer 6	UINT8		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
BYTE_7	Byte Integer 7	UINT8		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes



UserData								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
BYTE_8	Byte Integer 8	UINT8		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
BYTE_9	Byte Integer 9	UINT8		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
BYTE_10	Byte Integer 10	UINT8		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes
EVENT_LOG_OPT	Event Logging  0 - Disable 1 - Enable	ENUM16	0 -> 1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Log Changes

## 5.72 4088 Parameters

**Description:** The 4088 object provides the parameters for configuring 4088B multivariable transmitters.

**Number of Instances:** 20 instances may exist.

**Storage Location:** Saved to internal configuration memory.

**Table 5-71: 4088 Parameters**

4088								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
OBJ_NAME	Tag	UC20		Instance: "4088B_1-X" (where X is instance number between 1 and 20)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_AREA	Area Assignment	UINT8	0→5	0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
OBJ_STATUS	Status 0 - Normal 1 - In Alarm 2 - Failure 3 - Override 4 - Inactive	BIN32		Normal	Object Status (80)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
MOD_LOC	Module Location	UINT8		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
CHANNEL	Channel	UINT8		2		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

4088								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
DESC	Description	UC20		Instance: "4088B_1-X" (where X is instance number between 1 and 20)		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
SENSOR_OBJ	Transmitter Sensor	ObjectRef	Sensor	Instance: "Sensor_1-X" (where X is instance number between 1 and 20)		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
4088_ADDR	4088B Modbus Address	UINT8	1→240	Instance: 1-1 2-2 3-3 4-4 5-5 6-6 7-7 8-8 9-9 10-10 11-1 12-2 13-3 14-4 15-5 16-6 17-7 18-8 19-9 20-10		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
LCD_BMASK	LCD Bit masks 0 - None 1 - Differential Pressure 2 - Absolute Pressure	BIN32		None	LCD Bit masks (196)	<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	Legal

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4088									
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes	
	3 - Temperature 4 - Baud Rate 5 - Gage Pressure 6 - Sensor Temperature 7 - Reserved 8 - Slave Address 9 - Host Parameter 1 10 - Host Parameter 2 11 - Host Parameter 3 12 - Host Parameter 4 13 - Host Parameter 5 14 - Host Parameter 6 15 - Reserved 16 - Reserved 17 - Host Variable 1 18 - Host Variable 2 19 - Host Variable 3						R/O: Operator; Auditor		
LCD_SCROLL_TM	LCD Scroll Time	UINT8	1→10	3	s (17-0)	R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal	
4088_TAG	4088B Tag	UC10		??????????		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal	
4088_DESC	4088B Description	UC20		???????????????? ??		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal	
4088_MSG	4088B Message	UC40		???????????????? ??		R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	Legal	

4088								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
USR_DEF_TXT1	User Defined Text 1	UC10		??????????		R/O: Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_VAL1	User Defined Value 1	ParamRef		Undefined		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_UNIT1	User Defined Unit 1	UC10		??????		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_TXT2	User Defined Text 2	UC10		??????????		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_VAL2	User Defined Value 2	ParamRef		Undefined		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_UNIT2	User Defined Unit 2	UC10		??????		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_TXT3	User Defined Text 3	UC10		??????????		R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
USR_DEF_VAL3	User Defined Value 3	ParamRef		Undefined		<b>R/O:</b> Operator; Auditor <b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_UNIT3	User Defined Unit 3	UC10		??????		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_LABEL1	User Defined Label 1	UC10		??????????		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_PRM1	User Defined Parameter 1	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_PUNT1	User Defined Unit of Parameter 1	UC10		??????????		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_LABEL2	User Defined Label 2	UC10		??????????		<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_PRM2	User Defined Parameter 2	FLOAT		0		<b>R/W:</b> Admin; Engineer; Meas. Tech	2.0.0.XXX	Legal

4088								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
USR_DEF_PUNT2	User Defined Unit of Parameter 2	UC10		??????????		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_LABEL3	User Defined Label 3	UC10		??????????		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_PRM3	User Defined Parameter 3	FLOAT		0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_PUNT3	User Defined Unit of Parameter 3	UC10		??????????		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_LABEL4	User Defined Label 4	UC10		??????????		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_PRM4	User Defined Parameter 4	FLOAT		0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_PUNT4	User Defined Unit of Parameter 4	UC10		??????????		R/W: Admin; Engineer; Meas. Tech	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
USR_DEF_LABEL5	User Defined Label 5	UC10		??????????		R/O: Operator; Auditor R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_PRM5	User Defined Parameter 5	FLOAT		0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_PUNT5	User Defined Unit of Parameter 5	UC10		??????????		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_LABEL6	User Defined Label 6	UC10		??????????		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_PRM6	User Defined Parameter 6	FLOAT		0		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
USR_DEF_PUNT6	User Defined Unit of Parameter 6	UC10		??????????		R/W: Admin; Engineer; Meas. Tech R/O: Operator; Auditor	2.0.0.XXX	Legal
STAT_OPTN	Transmitter Status Option 0 - None 1 - DP Sensor Present	BIN8		None	Transmitter Status Option (197)	R/O: Admin; Engineer;	2.0.0.XXX	Legal



4088								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	2 - AP Sensor Present 3 - GP Sensor Present 4 - PT Sensor Present 5 - LCD Available					Meas. Tech; Operator; Auditor		
MODBUS_REV	Transmitter Modbus Version	UINT8		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
FIRM_VER	Firmware Version	UINT8		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal
SCAN_ENABLE	Transmitter Scanning enable 0 - Disable 1 - Enable	ENUM16	0→1	Disable (0)	Enable/Disable Selection (30)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Log Changes</li> <li>▪ Legal</li> </ul>
ON_DEMAND_CMD	User commands 0 - No Command 1 - On Demand Connect 2 - On Demand Synchronize 3 - Transmitter Reset 4 - On Demand Write 5 - On Demand Read	ENUM16	0→5	No Command (0)	User Commands (198)	<b>R/W:</b> Admin; Engineer; Meas. Tech <b>R/O:</b> Operator; Auditor	2.0.0.XXX	Legal
DP_VAR_STATUS	DP Variable Status 0 - Good - Not Limited 1 - Poor Accuracy-Low Limited 2 - Poor Accuracy-High Limited 3 - Poor Accuracy-No Limited 4 - Manual/Fixed - Constant 5 - Bad -Constant 6 - Unknown	ENUM16		Good - Not Limited (0)	Variable Status (202)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Legal</li> <li>▪ Verified</li> </ul>

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
SP_VAR_STATUS	SP Variable Status 0 - Good - Not Limited 1 - Poor Accuracy-Low Limited 2 - Poor Accuracy-High Limited 3 - Poor Accuracy-No Limited 4 - Manual/Fixed - Constant 5 - Bad -Constant 6 - Unknown	ENUM16		Good - Not Limited (0)	Variable Status (202)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Legal</li> <li>▪ Verified</li> </ul>
PT_VAR_STATUS	PT Variable Status 0 - Good - Not Limited 1 - Poor Accuracy-Low Limited 2 - Poor Accuracy-High Limited 3 - Poor Accuracy-No Limited 4 - Manual/Fixed - Constant 5 - Bad -Constant 6 - Unknown	ENUM16		Good - Not Limited (0)	Variable Status (202)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Legal</li> <li>▪ Verified</li> </ul>
ST_VAR_STATUS	ST Variable Status 0 - Good - Not Limited 1 - Poor Accuracy-Low Limited 2 - Poor Accuracy-High Limited 3 - Poor Accuracy-No Limited 4 - Manual/Fixed - Constant 5 - Bad -Constant 6 - Unknown	ENUM16		Good - Not Limited (0)	Variable Status (202)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Legal</li> <li>▪ Verified</li> </ul>
4088_CAL_STAT	Calibration status of 4088B 0 - No Measurement In Calibration 1 - DP Measurement In Calibration	BIN8		No Measurement In Calibration	Calibration status of 4088 (199)	<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

4088								
Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
	2 - SP Measurement In Calibration 3 - PT Measurement In Calibration							
COMM_STATUS	Modbus Communication Health 0 - Success 1 - Failure 2 - Disabled	ENUM16		Disabled (2)	Status (200)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Legal</li> <li>▪ Verified</li> </ul>
CONFIG_CHANGE_CNT	Configuration Change Counter	UINT16		0		R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	<ul style="list-style-type: none"> <li>▪ Legal</li> <li>▪ Verified</li> </ul>
INPUT_STATUS	Input Health Status 0 - Normal 1 - Not Licensed 2 - Instance Inactive 3 - Communication Failed 4 - Config. Issue Due To Write Protect 5 - DP Failed 6 - Pressure Failed 7 - RTD Failed 8 - Synchronization In Progress 9 - Scan Disabled 10 - Writing Failed 11 - Scanning Baud Rate 12 - EMV in Mode A 13 - Reading Device 14 - Writing Device 15 - Baud Too Low 16 - Writing Baud Failed 17 - Sensor Disconnected	BIN32		Normal	4088 Input Status (201)	R/O: Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

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Name	Description of functionality and meaning of values	Data Type	Range	Default	Default Measurement Type (Table #)	Access (by Role)	Version	Other Attributes
XMTR_SER_NUM	Transmitter Serial Number	UINT32		0		<b>R/O:</b> Admin; Engineer; Meas. Tech; Operator; Auditor	2.0.0.XXX	Legal

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