

# PM-50 Analog Meters Modbus Communication Table

02/24/2022

LP1186A

## Notes:

1. To apply any configuration changes, it is necessary to also write a 1 to the appropriate Apply Configuration (416xx) register.
2. The PM-50 should not be powered down while parameters are being changed. Doing so may corrupt the non-volatile memory resulting in checksum errors.

REGISTER ADDRESS	REGISTER NAME	LOW LIMIT	HIGH LIMIT	FACTORY SETTING	ACCESS	CONFIG. REGISTER	COMMENTS
<b>FREQUENTLY USED REGISTERS</b>							
40001	Input Relative Value (Hi word)	N/A	N/A	N/A	Read Only		Process value of present input level. This value is affected by Input Type, Resolution, Scaling, & Offset Value. (Relative Value = Absolute Input Value + Offset Value) 1=1 display unit (disregard decimal point)
40002	Input Relative Value (Lo word)						
40003	Maximum Value (Hi word)	-199999	999999	N/A	Read/Write		1 = 1 display unit (disregard decimal point)
40004	Maximum Value (Lo word)						
40005	Minimum Value (Hi word)	-199999	999999	N/A	Read/Write		1 = 1 display unit (disregard decimal point)
40006	Minimum Value (Lo word)						
40007	Total Value (Hi word)	-199999999	999999999	N/A	Read/Write		1 = 1 display unit (disregard decimal point)
40008	Total Value (Lo word)						
40009	Setpoint 1 Value (Hi word)	-199999	999999	10000	Read/Write		Active List (A or B) 1 = 1 display unit (disregard decimal point)
40010	Setpoint 1 Value (Lo word)						
40011	Setpoint 2 Value (Hi word)	-199999	999999	10000	Read/Write		Active List (A or B) 1 = 1 display unit (disregard decimal point)
40012	Setpoint 2 Value (Lo word)						
40013	Setpoint 3 Value (Hi word)	-199999	999999	10000	Read/Write		Active List (A or B) 1 = 1 display unit (disregard decimal point)
40014	Setpoint 3 Value (Lo word)						
40015	Setpoint 4 Value (Hi word)	-199999	999999	10000	Read/Write		Active List (A or B) 1 = 1 display unit (disregard decimal point)
40016	Setpoint 4 Value (Lo word)						
40017	Setpoint 5 Value (Hi word)	-199999	999999	10000	Read/Write		Active List (A or B) 1 = 1 display unit (disregard decimal point)
40018	Setpoint 5 Value (Lo word)						

REGISTER ADDRESS	REGISTER NAME	LOW LIMIT	HIGH LIMIT	FACTORY SETTING	ACCESS	CONFIG. REGISTER	COMMENTS
40019	Setpoint 6 Value (Hi word)	-199999	999999	10000	Read/Write		Active List (A or B) 1 = 1 display unit (disregard decimal point)
40020	Setpoint 6 Value (Lo word)						
40021	Setpoint 1 Band/Dev. Value (Hi word)	-199999	999999	0	Read/Write		Active List (A or B). Applicable only for Band or Deviation Setpoint Action. 1 = 1 display unit (disregard decimal point)
40022	Setpoint 1 Band/Dev. Value (Lo word)						
40023	Setpoint 2 Band/Dev. Value (Hi word)	-199999	999999	0	Read/Write		Active List (A or B). Applicable only for Band or Deviation Setpoint Action. 1 = 1 display unit (disregard decimal point)
40024	Setpoint 2 Band/Dev. Value (Lo word)						
40025	Setpoint 3 Band/Dev. Value (Hi word)	-199999	999999	0	Read/Write		Active List (A or B). Applicable only for Band or Deviation Setpoint Action. 1 = 1 display unit (disregard decimal point)
40026	Setpoint 3 Band/Dev. Value (Lo word)						
40027	Setpoint 4 Band/Dev. Value (Hi word)	-199999	999999	0	Read/Write		Active List (A or B). Applicable only for Band or Deviation Setpoint Action. 1 = 1 display unit (disregard decimal point)
40028	Setpoint 4 Band/Dev. Value (Lo word)						
40029	Setpoint 5 Band/Dev. Value (Hi word)	-199999	999999	0	Read/Write		Active List (A or B). Applicable only for Band or Deviation Setpoint Action. 1 = 1 display unit (disregard decimal point)
40030	Setpoint 5 Band/Dev. Value (Lo word)						
40031	Setpoint 6 Band/Dev. Value (Hi word)	-199999	999999	0	Read/Write		Active List (A or B). Applicable only for Band or Deviation Setpoint Action. 1 = 1 display unit (disregard decimal point)
40032	Setpoint 6 Band/Dev. Value (Lo word)						
40033	Setpoint Output Register (SOR)	0	63	N/A	Read/Write		Status of Setpoint Outputs. Bit State: 0 = Off, 1 = On. 5 = S5, 4 = S6, 3 = S1, 2 = S2, 1 = S3, 0 = S4 Outputs can only be activated/reset with this register when the respective bits in the Manual Mode Register (MMR) are set.
40034	Manual Mode Register (MMR)	0	31	0	Read/Write		Bit State: 0 = Auto Mode, 1 = Manual Mode Bit 4 = S1, Bit 3 = S2, Bit 2 = S3, Bit 1 = S4, Bit 0 = Linear Output
40035	Reset Output Register	0	63	0	Read/Write		Bit State: 1 = Reset Output, bit is returned to zero following reset processing; Bit 3 = S1, Bit 2 = S2, Bit 1 = S3, Bit 0 = S4
40036	Analog Output Register	0 (Unipolar Ranges) -32768 (-10 to 10 range)	32767	0	Read/Write		This register is written to only if Analog Output is in Manual Mode. (MMR bit 0 = 1)

REGISTER ADDRESS	REGISTER NAME	LOW LIMIT	HIGH LIMIT	FACTORY SETTING	ACCESS	CONFIG. REGISTER	COMMENTS
40037	Input Absolute Value (Hi word)	N/A	N/A	N/A	Read only		Process value of present input level. This value is affected by Input Type, Resolution, Scaling, (Absolute Value = Relative Input Value - Offset Value)
40038	Input Absolute Value (Lo word)						
<b>INPUT PARAMETERS</b>							
40081	Input Type	1	5	1	Read/Write	41608	1 = Voltage 2 = Current 3 = Resistance 4 = RTD 5 = TC
40082	Voltage	1	4	4	Read/Write	41608	1 = ± 200 mV, 2 = ± 2 V, 3 = ± 20 V, 4 = ± 60 V
40083	Current	1	5	5	Read/Write	41608	1 = ± 200 µA 2 = ± 2 mA 3 = ± 20 mA 4 = ± 200 mA 5 = ± 2 A
40084	Resistance	1	3	3	Read/Write	41608	1 = 100 ohms 2 = 1000 ohms 3 = 10000 ohms
40085	Thermocouple	1	9	8	Read/Write	41608	1 = Type R, 2 = Type S, 3 = Type B, 4 = Type N, 5 = Type C, 6 = Type T, 7 = Type E, 8 = Type J, 9 = Type K
40086	RTD	1	4	4	Read/Write	41608	1 = R392, 2 = R672, 3 = R427, 4 = R385
40087	Temperature Scale	1	2	1	Read/Write	41608	1 = Celsius 2 = Fahrenheit
40088	Cold Junction	1	2	2	Read/Write	41608	1 = Off, 2 = On.
40089	Sample Rate	1	5	1	Read/Write	41608	1 = 10, 2 = 20, 3 = 50, 4 = 100, 5 = 200
40090	Decimal Point	0	4	2	Read/Write	41608	0 = 0, 1 = 0.0, 2 = 0.00, 3 = 0.000, 4 = 0.0000
40091	Filter Band	0	65000	10	Read/Write	41608	
40093	Offset Display (Hi word)	-199999	999999	0	Read/Write	41608	1 = 1 display unit (disregard decimal point)
40094	Offset Display (Lo word)						
40095	Rounding Value	1	7	1	Read/Write	41608	1 = 1, 2 = 2, 3 = 5, 4 = 10, 5 = 20, 6 = 50, 7 = 100
40096	Digital Filter	0	250	10	Read/Write	41608	0 = 0.0, 250 = 25.0
40097	Scaling Type	1	2	1	Read/Write	41608	1 = Enter values
40098	Scaling List	0	1	0	Read/Write	41608	Enable/Disable Scale List B, 0 = Disable, 1 = Enable
40099	Max Capture Time (Hi word)	0	32750	10	Read/Write	41608	0 = 0.0, 32750 = 3275.0 Sec
40100	Max Capture Time (Lo word)						
40101	Min Capture Time (Hi word)	0	32750	10	Read/Write	41608	0 = 0.0, 32750 = 3275.0 Sec
40102	Min Capture Time (Lo word)						
40103	Max Capture Assign	1	2	1	Read/Write	41608	1 = Relative 2 = Absolute
40104	Min Capture Assign	1	2	1	Read/Write	41608	1 = Relative 2 = Absolute

REGISTER ADDRESS		REGISTER NAME	LOW LIMIT	HIGH LIMIT	FACTORY SETTING	ACCESS	CONFIG. REGISTER	COMMENTS
40105		Show Min Max Capture Parameters on UI	0	1	0	Read/Write	41608	Show/hide Min-Max Capture 0 = Hide, 1 = Show (This parameter is only to control visibility of Min-Max Capture parameters from User Interface)
40106		Display Updates	1	5	2	Read/Write	41608	1 = 1, 2 = 2, 3 = 5, 4 = 10, 5 = 20
<b>Scaling &amp; Setpoint</b>								
List A	List B	<b>Scaling Values</b>						
40151	40351	Number of Scaling Points	2	40	2	Read/Write	41608	
40153	40353	Scaling Pt 1 Input Value (Hi word)	-199999	999999	0	Read/Write	41608	1 = 1 in least significant digit (disregard decimal point)
40154	40354	Scaling Pt 1 Input Value (Lo word)						
40155	40355	Scaling Pt 1 Display Value (Hi word)	-199999	999999	0	Read/Write	41608	1 = 1 display unit (disregard decimal point)
40156	40356	Scaling Pt 1 Display Value (Lo word)						
thru	thru	Scaling Points 2 thru 10 Values	...	...	...	Read/Write	41608	Registers 40157-40188 and 40357-40388 hold values for Scaling Points 2 thru 10, and follow the same ordering as Scaling Point 1.
40189	40389	Scaling Pt 10 Input Value (Hi word)	-199999	999999	0	Read/Write	41608	
40190	40390	Scaling Pt 10 Input Value (Lo word)						
40191	40391	Scaling Pt 10 Display Value (Hi word)	-199999	999999	0	Read/Write	41608	
40192	40392	Scaling Pt 10 Display Value (Lo word)						
List A	List B	<b>Setpoint Values</b>						
40313	40513	Setpoint 1 Value (Hi word)	-199999	999999	10000	Read/Write	41607	1 = 1 display unit (disregard decimal point)
40314	40514	Setpoint 1 Value (Lo word)						
40315	40515	Setpoint 2 Value (Hi word)	-199999	999999	10000	Read/Write	41607	1 = 1 display unit (disregard decimal point)
40316	40516	Setpoint 2 Value (Lo word)						
40317	40517	Setpoint 3 Value (Hi word)	-199999	999999	10000	Read/Write	41607	1 = 1 display unit (disregard decimal point)
40318	40518	Setpoint 3 Value (Lo word)						
40319	40519	Setpoint 4 Value (Hi word)	-199999	999999	10000	Read/Write	41607	1 = 1 display unit (disregard decimal point)
40320	40520	Setpoint 4 Value (Lo word)						
40321	40521	Setpoint 5 Value (Hi word)	-199999	999999	10000	Read/Write	41607	1 = 1 display unit (disregard decimal point)
40322	40522	Setpoint 5 Value (Lo word)						
40323	40523	Setpoint 6 Value (Hi word)	-199999	999999	10000	Read/Write	41607	1 = 1 display unit (disregard decimal point)
40324	40524	Setpoint 6 Value (Lo word)						

REGISTER ADDRESS		REGISTER NAME	LOW LIMIT	HIGH LIMIT	FACTORY SETTING	ACCESS	CONFIG. REGISTER	COMMENTS
40325	40525	Setpoint 1 Band/Deviation Value (Hi word)	-199999	999999	0	Read/Write	41607	1 = 1 display unit (disregard decimal point)
40326	40526	Setpoint 1 Band/Deviation Value (Lo word)						
40327	40527	Setpoint 2 Band/Deviation Value (Hi word)	-199999	999999	0	Read/Write	41607	1 = 1 display unit (disregard decimal point)
40328	40528	Setpoint 2 Band/Deviation Value (Lo word)						
40329	40529	Setpoint 3 Band/Deviation Value (Hi word)	-199999	999999	0	Read/Write	41607	1 = 1 display unit (disregard decimal point)
40330	40530	Setpoint 3 Band/Deviation Value (Lo word)						
40331	40531	Setpoint 4 Band/Deviation Value (Hi word)	-199999	999999	0	Read/Write	41607	1 = 1 display unit (disregard decimal point)
40332	40532	Setpoint 4 Band/Deviation Value (Lo word)						
40333	40533	Setpoint 5 Band/Deviation Value (Hi word)	-199999	999999	0	Read/Write	41607	1 = 1 display unit (disregard decimal point)
40334	40534	Setpoint 5 Band/Deviation Value (Lo word)						
40335	40535	Setpoint 6 Band/Deviation Value (Hi word)	-199999	999999	0	Read/Write	41607	1 = 1 display unit (disregard decimal point)
40336	40536	Setpoint 6 Band/Deviation Value (Lo word)						
<b>TOTALIZER PARAMETERS</b>								
40551	Decimal Point		0	4	3	Read/Write	41609	0 = 0, 1 = 0.0, 2 = 0.00, 3 = 0.000, 4 = 0.0000
40552	Time Base		1	4	2	Read/Write	41609	1 = Seconds, 2 = Minutes, 3 = Hours, 4 = Days
40553	Scale Factor		1	65000	1000	Read/Write	41609	1 = .001, 65000 = 65.000
40555	Low Cut (Hi word)		-199999	999999	-199999	Read/Write	41609	1 = 1 display unit (disregard decimal point)
40556	Low Cut (Lo word)							
40557	Power Up Reset		0	1	0	Read/Write	41609	1 = Enable, 0 = Disable
<b>SETPOINT GLOBAL</b>								
40571	SSR Logic		1	2	2	Read/Write	41607	Only applicable to Setpoint one and two 1 = Source, 2 = Sink

REGISTER ADDRESS	REGISTER NAME	LOW LIMIT	HIGH LIMIT	FACTORY SETTING	ACCESS	CONFIG. REGISTER	COMMENTS
<b>Setpoint One</b>							
40572	Setpoint Assignment	1	4	1	Read/Write	41607	1 = None, 2 = Relative, 3 = Absolute, 4 = Totalizer
40573	List Selection	1	2	1	Read/Write	41607	1 = List A, 2 = List B
40574	Action	0	8	0	Read/Write	41607	0 = None 1 = Absolute High, Unbalanced Hysteresis 2 = Absolute Low, Unbalanced Hysteresis 3 = Absolute High, Balanced Hysteresis 4 = Absolute Low, Balanced Hysteresis 5 = Deviation High, Unbalanced Hysteresis 6 = Deviation Low, Unbalanced Hysteresis 7 = Outside Band, Unbalanced Hysteresis 8 = Inside Band, Unbalanced Hysteresis If assignment is set as Totalizer: 1 = Totalizer Low, Unbalanced Hysteresis 2 = Totalizer High, Unbalanced Hysteresis
40575	Hysteresis	0	65000	2	Read/Write	41607	1 = 1 display unit (disregard decimal point)
40577	On Delay	0	32750	0	Read/Write	41607	1 = 0.1 second
40578	Off Delay	0	32750	0	Read/Write	41607	1 = 0.1 second
40579	Output Logic	1	2	1	Read/Write	41607	1 = Normal, 2 = Reverse
40580	Reset Action	1	3	1	Read/Write	41607	1 = Auto, 2 = Latch 1, 3 = Latch 2
40581	Standby Operation	1	2	1	Read/Write	41607	1 = No, 2 = Yes
40582	Annunciator	1	4	2	Read/Write	41607	1 = Off, 2 = Normal, 3 = Flash, 4 = Reverse phase
40583	Annunciator Display Color	1	2	2	Read/Write	41607	1 = Orange, 2 = Red
40584	Setpoint Display Color	1	2	2	Read/Write	41607	1 = Orange, 2 = Red
40585	Probe Burnout Action	1	2	1	Read/Write	41607	1 = No, 2 = Yes
<b>Setpoint Two</b>							
40586	Setpoint Assignment	1	4	1	Read/Write	41607	1 = None, 2 = Relative, 3 = Absolute, 4 = Totalizer
40587	List Selection	1	2	1	Read/Write	41607	1 = List A, 2 = List B
40588	Action	0	8	0	Read/Write	41607	Same as Setpoint One: Action
40589	Hysteresis	0	65000	2	Read/Write	41607	1 = 1 display unit (disregard decimal point)
40591	On Delay	0	32750	0	Read/Write	41607	1 = 0.1 second
40592	Off Delay	0	32750	0	Read/Write	41607	1 = 0.1 second
40593	Output Logic	1	2	1	Read/Write	41607	1 = Normal, 2 = Reverse
40594	Reset Action	1	3	1	Read/Write	41607	1 = Auto, 2 = Latch 1, 3 = Latch 2

REGISTER ADDRESS	REGISTER NAME	LOW LIMIT	HIGH LIMIT	FACTORY SETTING	ACCESS	CONFIG. REGISTER	COMMENTS
40595	Standby Operation	1	2	1	Read/Write	41607	1 = No, 2 = Yes
40596	Annunciator	1	4	2	Read/Write	41607	1 = Off, 2 = Normal, 3 = Flash, 4 = Reverse phase
40597	Annunciator Display Color	1	2	2	Read/Write	41607	1 = Orange, 2 = Red
40598	Setpoint Display Color	1	2	2	Read/Write	41607	1 = Orange, 2 = Red
40599	Probe Burnout Action	1	2	1	Read/Write	41607	1 = No, 2 = Yes
<b>Setpoint Three</b>							
40600	Setpoint Assignment	1	4	1	Read/Write	41607	1 = None, 2 = Relative, 3 = Absolute, 4 = Totalizer
40601	List Selection	1	2	1	Read/Write	41607	1 = List A, 2 = List B
40602	Action	0	8	0	Read/Write	41607	Same as Setpoint One: Action
40603	Hysteresis	0	65000	2	Read/Write	41607	1 = 1 display unit (disregard decimal point)
40605	On Delay	0	32750	0	Read/Write	41607	1 = 0.1 second
40606	Off Delay	0	32750	0	Read/Write	41607	1 = 0.1 second
40607	Output Logic	1	2	1	Read/Write	41607	1 = Normal, 2 = Reverse
40608	Reset Action	1	3	1	Read/Write	41607	1 = Auto, 2 = Latch 1, 3 = Latch 2
40609	Standby Operation	1	2	1	Read/Write	41607	1 = No, 2 = Yes
40610	Annunciator	1	4	2	Read/Write	41607	1 = Off, 2 = Normal, 3 = Flash, 4 = Reverse phase
40611	Annunciator Display Color	1	2	2	Read/Write	41607	1 = Orange, 2 = Red
40612	Setpoint Display Color	1	2	2	Read/Write	41607	1 = Orange, 2 = Red
40613	Probe Burnout Action	1	2	1	Read/Write	41607	1 = No, 2 = Yes
<b>Setpoint Four</b>							
40614	Setpoint Assignment	1	4	1	Read/Write	41607	1 = None, 2 = Relative, 3 = Absolute, 4 = Totalizer
40615	List Selection	1	2	1	Read/Write	41607	1 = List A, 2 = List B
40616	Action	0	8	0	Read/Write	41607	Same as Setpoint One: Action
40617	Hysteresis	0	65000	2	Read/Write	41607	1 = 1 display unit (disregard decimal point)
40619	On Delay	0	32750	0	Read/Write	41607	1 = 0.1 second
40620	Off Delay	0	32750	0	Read/Write	41607	1 = 0.1 second
40621	Output Logic	1	2	1	Read/Write	41607	1 = Normal, 2 = Reverse
40622	Reset Action	1	3	1	Read/Write	41607	1 = Auto, 2 = Latch 1, 3 = Latch 2
40623	Standby Operation	1	2	1	Read/Write	41607	1 = No, 2 = Yes
40624	Annunciator	1	4	2	Read/Write	41607	1 = Off, 2 = Normal, 3 = Flash, 4 = Reverse phase
40625	Annunciator Display Color	1	2	2	Read/Write	41607	1 = Orange, 2 = Red

REGISTER ADDRESS	REGISTER NAME	LOW LIMIT	HIGH LIMIT	FACTORY SETTING	ACCESS	CONFIG. REGISTER	COMMENTS
40626	Setpoint Display Color	1	2	2	Read/Write	41607	1 = Orange, 2 = Red
40627	Probe Burnout Action	1	2	1	Read/Write	41607	1 = No, 2 = Yes
<b>Setpoint Five</b>							
40628	Setpoint Assignment	1	4	1	Read/Write	41607	1 = None, 2 = Relative, 3 = Absolute, 4 = Totalizer
40629	List Selection	1	2	1	Read/Write	41607	1 = List A, 2 = List B
40630	Action	0	8	0	Read/Write	41607	Same as Setpoint One: Action
40631	Hysteresis	0	65000	2	Read/Write	41607	1 = 1 display unit (disregard decimal point)
40633	On Delay	0	32750	0	Read/Write	41607	1 = 0.1 second
40634	Off Delay	0	32750	0	Read/Write	41607	1 = 0.1 second
40635	Output Logic	1	2	1	Read/Write	41607	1 = Normal, 2 = Reverse
40636	Reset Action	1	3	1	Read/Write	41607	1 = Auto, 2 = Latch 1, 3 = Latch 2
40637	Standby Operation	1	2	1	Read/Write	41607	1 = No, 2 = Yes
40638	Annunciator	1	4	2	Read/Write	41607	1 = Off, 2 = Normal, 3 = Flash, 4 = Reverse phase
40639	Annunciator Display Color	1	2	2	Read/Write	41607	1 = Orange, 2 = Red
40640	Setpoint Display Color	1	2	2	Read/Write	41607	1 = Orange, 2 = Red
40641	Probe Burnout Action	1	2	1	Read/Write	41607	1 = No, 2 = Yes
<b>Setpoint Six</b>							
40642	Setpoint Assignment	1	4	1	Read/Write	41607	1 = None, 2 = Relative, 3 = Absolute, 4 = Totalizer
40643	List Selection	1	2	1	Read/Write	41607	1 = List A, 2 = List B
40644	Action	0	8	0	Read/Write	41607	Same as Setpoint One: Action
40645	Hysteresis	0	65000	2	Read/Write	41607	1 = 1 display unit (disregard decimal point)
40647	On Delay	0	32750	0	Read/Write	41607	1 = 0.1 second
40648	Off Delay	0	32750	0	Read/Write	41607	1 = 0.1 second
40649	Output Logic	1	2	1	Read/Write	41607	1 = Normal, 2 = Reverse
40650	Reset Action	1	3	1	Read/Write	41607	1 = Auto, 2 = Latch 1, 3 = Latch 2
40651	Standby Operation	1	2	1	Read/Write	41607	1 = No, 2 = Yes
40652	Annunciator	1	4	2	Read/Write	41607	1 = Off, 2 = Normal, 3 = Flash, 4 = Reverse phase
40653	Annunciator Display Color	1	2	2	Read/Write	41607	1 = Orange, 2 = Red
40654	Setpoint Display Color	1	2	2	Read/Write	41607	1 = Orange, 2 = Red
40655	Probe Burnout Action	1	2	1	Read/Write	41607	1 = No, 2 = Yes



REGISTER ADDRESS	REGISTER NAME	LOW LIMIT	HIGH LIMIT	FACTORY SETTING	ACCESS	CONFIG. REGISTER	COMMENTS
<b>ANALOG OUTPUT PARAMETERS</b>							
40701	Output Type	1	3	1	Read/Write	41601	1 = 4 to 20 mA 2 = 0 to 20 mA 3 = 0 to 10 VDC 4 = -10 VDC to +10 VDC
40702	Output Assignment	0	5	1	Read/Write	41601	0 = None 1 = Relative 2 = Absolute 3 = Totalizer 4 = Max 5 = Min
40703	Low Scale (Hi word)	-199999	999999	0	Read/Write	41601	
40704	Low Scale (Lo word)						
40705	High Scale (Hi word)	-199999	999999	10000	Read/Write	41601	
40706	High Scale (Lo word)						
40708	Probe Burnout	1	2	1	Read/Write	41601	1 = Low, 2 = High
<b>DISPLAY PARAMETERS</b>							
40801	Brightness	0	100	80	Read/Write	41602	
40802	Enable sleep timer	0	1	0	Read/Write	41602	0 = Disable, 1 = Enable
40803	Set sleep time (seconds)	1	3600	200	Read/Write	41602	
40804	Large Numeric Widget	0	1	0	Read/Write	41602	0 = Disable, 1 = Enable, User Screen 3 and Screen 4 together as Large Numeric Widget
40805	Power Save mode	0	1	1	Read/Write	41602	0 = Disable Dark Theme, 1 = Enable Dark Theme
<b>Common for User Input One &amp; Two</b>							
40901	User Input Active State	1	2	1	Read/Write	41603	SRC/SNK Logic common for User Input One and Two 1 = Sink, 2 = Source
<b>User Input One</b>							
40902	Function	1	14	1	Read/Write	41603	1 = None 2 = Reset 3 = Program Lockout 4 = Tare Display 5 = Display Absolute 6 = Hold Display 7 = Hold All 8 = Sync Reading 9 = Store Batch 10 = Reset & Enable Totalizer 11 = Enable Totalizer 12 = Adjust Brightness 13 = Select Parameter List 14 = Print Request

REGISTER ADDRESS	REGISTER NAME	LOW LIMIT	HIGH LIMIT	FACTORY SETTING	ACCESS	CONFIG. REGISTER	COMMENTS
40903	Reset Selections	0	511	8	Read/Write	41603	Bit map: 0 = Off, 1 = On 0 = Totalizer                      5 = Setpoint 3 Status 1 = Max Display                    6 = Setpoint 4 Status 2 = Min Display                    7 = Setpoint 5 Status 3 = Setpoint 1 Status            8 = Setpoint 6 Status 4 = Setpoint 2 Status
40904	Output Selections	0	63	1	Read/Write	41603	Bit map: 0 = Off, 1 = On 0 = Setpoint 1                      3 = Setpoint 4 1 = Setpoint 2                      4 = Setpoint 5 2 = Setpoint 3                      5 = Setpoint 6
<b>User Input Two</b>							
40906	Function	1	14	1	Read/Write	41603	Same as User Input One: Function
40907	Reset Selections	0	511	8	Read/Write	41603	Same as User Input One: Reset Selections
40908	Output Selections	0	63	1	Read/Write	41603	Same as User Input One: Output Selections
<b>SOFTWARE FUNCTION KEY PARAMETERS</b>							
40951	Function Key Status	0	1	0	Read/Write	41604	0 = Disable, 1 = Enable
<b>F1 Function Key</b>							
40952	Function	1	8	1	Read/Write	41604	1 = None                              6 = Adjust Brightness 2 = Reset                              7 = Select Parameter 3 = Tare Display                      List 4 = Display Absolute                8 = Print Request 5 = Store Batch
40953	Reset Selections	0	511	8	Read/Write	41604	Bit map = 0 = Off, 1 = On 0 = Setpoint 1                      3 = Setpoint 4 1 = Setpoint 2                      4 = Setpoint 5 2 = Setpoint 3                      5 = Setpoint 6
40954	Output Selections	0	63	1	Read/Write	41604	Bit map = 0 = Off, 1 = On 0 = Setpoint 1                      3 = Setpoint 4 1 = Setpoint 2                      4 = Setpoint 5 2 = Setpoint 3                      5 = Setpoint 6
<b>F2 Function Key</b>							
40955	Function	1	8	1	Read/Write	41604	Same as F1 Function Key: Function
40956	Reset Selections	0	511	8	Read/Write	41604	Same as F1 Function Key: Reset Selections
40957	Output Selections	0	63	1	Read/Write	41604	Same as F1 Function Key: Output Selections

REGISTER ADDRESS	REGISTER NAME	LOW LIMIT	HIGH LIMIT	FACTORY SETTING	ACCESS	CONFIG. REGISTER	COMMENTS
<b>F3 Function Key</b>							
40958	Function	1	8	1	Read/Write	41604	Same as F1 Function Key: Function
40959	Reset Selections	0	511	8	Read/Write	41604	Same as F1 Function Key: Reset Selections
40960	Output Selections	0	63	1	Read/Write	41604	Same as F1 Function Key: Output Selections
<b>F4 Function Key</b>							
40961	Function	1	8	1	Read/Write	41604	Same as F1 Function Key: Function
40962	Reset Selections	0	511	8	Read/Write	41604	Same as F1 Function Key: Reset Selections
40963	Output Selections	0	63	1	Read/Write	41604	Same as F1 Function Key: Output Selections
<b>RS-485 PARAMETERS</b>							
41001	Communication Protocol/Type	1	4	1	Read/Write	41610	1 = Modbus ASCII, 2 = Modbus RTU, 3 = RLC protocol (ASCII), 4 = None
41002	Baud Rate	1	8	8	Read/Write	41610	1 = 1200, 2 = 2400, 3 = 4800, 4 = 9600, 5 = 19200, 6 = 38400, 7 = 57600, 8 = 115200
41003	Data Bits	1	2	2	Read/Write	41610	1 = 7 bits, 2 = 8 bits
41004	Parity	1	3	1	Read/Write	41610	1 = None, 2 = Even, 3 = Odd
41005	Stop Bits	1	2	2	Read/Write	41610	1 = 1 stop bit, 2 = 2 stop bits
41006	RLC Station Address	0	99	0	Read/Write	41610	RLC Station Address
41007	Modbus Station Address	1	247	247	Read/Write	41610	Modbus Station Address
41008	RLC Transmit Delay	0	250	10	Read/Write	41610	0 – 250 msec
41009	Abbreviated Transmission	0	1	0	Read/Write	41610	0 = No, 1 = Yes. (RLC ASCII only)
41011	Print Option	0	31	7	Read/Write	41610	Bit map = 0 = Off, 1 = On 0 = Print Input Value 1 = Print Totalizer Value 2 = Print Maximum Value 3 = Print Minimum Value 4 = Print Setpoint Values (RLC ASCII only)
<b>RS-232 PARAMETERS</b>							
41101	Communication Protocol/Type	1	4	1	Read/Write	41606	1 = Modbus ASCII, 2 = Modbus RTU, 3 = RLC protocol (ASCII), 4 = None
41102	Baud Rate	1	8	8	Read/Write	41606	1 = 1200, 2 = 2400, 3 = 4800, 4 = 9600, 5 = 19200, 6 = 38400, 7 = 57600, 8 = 115200
41103	Data Bits	1	2	2	Read/Write	41606	1 = 7 bits, 2 = 8 bits
41104	Stop Bits	1	2	2	Read/Write	41606	1 = 1 stop bit, 2 = 2 stop bits
41105	Parity	1	3	1	Read/Write	41606	1 = None, 2 = Even, 3 = Odd

REGISTER ADDRESS	REGISTER NAME	LOW LIMIT	HIGH LIMIT	FACTORY SETTING	ACCESS	CONFIG. REGISTER	COMMENTS
41106	RLC Station Address	0	99	0	Read/Write	41606	RLC Station Address
41107	Modbus Station Address	1	247	247	Read/Write	41606	Modbus Station Address
41108	RLC Transmit Delay	0	250	10	Read/Write	41606	0 – 250 msec
41109	Abbreviated Transmission	0	1	0	Read/Write	41606	0 = No, 1 = Yes. (RLC ASCII only)
41111	Print Option	0	31	7	Read/Write	41606	Bit map: 0 = Off, true = On 0 = Print Input Value 1 = Print Totalizer Value 2 = Print Maximum Value 3 = Print Minimum Value 4 = Print Setpoint Values (RLC ASCII only)
<b>Screen 1</b>							
41201	Display Style	1	6	2	Read/Write	41605	1 = None, 2 = Gauge, 3 = Temperature, 4 = Setpoint Status, 5 = Numeric, 6 = Max Min Total Monitor
41202	Signal Type	1	2	1	Read/Write	41605	1 = Analog Input, 2 = Totalizer
41203	Output Selection	0	63	7	Read/Write	41605	Select output
41207	Color Band 1	1	5	4	Read/Write	41605	1 = Red, 2 = Blue, 3 = Green, 4 = Yellow
41208	Percentage Band 1	0	100	20	Read/Write	41605	
41209	Color Band 2	1	5	3	Read/Write	41605	1 = Red, 2 = Blue, 3 = Green, 4 = Yellow
41210	Percentage Band 2	0	100	60	Read/Write	41605	
41211	Color Band 3	1	5	2	Read/Write	41605	1 = Red, 2 = Blue, 3 = Green, 4 = Yellow
41212	Percentage Band 2	0	100	100	Read/Write	41605	
41213	Minimum (Hi word)	-999999999	999999999	0	Read/Write	41605	Minimum value for display.
40214	Minimum (Lo word)						
41215	Maximum (Hi word)	-999999999	999999999	200	Read/Write	41605	Maximum value for display.
41216	Maximum (Lo word)						
<b>Screen 2</b>							
41301	Display Style	1	6	5	Read/Write	41605	1 = None, 2 = Gauge, 3 = Temperature, 4 = Setpoint Status, 5 = Numeric, 6 = Max Min Total Monitor
41302	Signal Type	1	2	1	Read/Write	41605	1 = Analog Input, 2 = Totalizer
41303	Output Selection	0	63	7	Read/Write	41605	Select output
41307	Color Band 1	1	5	4	Read/Write	41605	1 = Red, 2 = Blue, 3 = Green, 4 = Yellow

REGISTER ADDRESS	REGISTER NAME	LOW LIMIT	HIGH LIMIT	FACTORY SETTING	ACCESS	CONFIG. REGISTER	COMMENTS
41308	Percentage Band 1	0	100	20	Read/Write	41605	
41309	Color Band 2	1	5	3	Read/Write	41605	1 = Red, 2 = Blue, 3 = Green, 4 = Yellow
41310	Percentage Band 2	0	100	60	Read/Write	41605	
41311	Color Band 3	1	5	2	Read/Write	41605	1 = Red, 2 = Blue, 3 = Green, 4 = Yellow
41312	Percentage Band 3	0	100	100	Read/Write	41605	
41313	Minimum (Hi word)	-999999999	999999999	0	Read/Write	41605	Minimum value for display
41314	Minimum (Lo word)						
41315	Maximum (Hi word)	-999999999	999999999	200	Read/Write	41605	Maximum value for display
41316	Maximum (Lo word)						
<b>Screen 3</b>							
41401	Display Style	1	6	4	Read/Write	41605	1 = None, 2 = Gauge, 3 = Temperature, 4 = Setpoint Status, 5 = Numeric, 6 = Max Min Total Monitor
41402	Signal Type	1	2	1	Read/Write	41605	1 = Analog Input, 2 = Totalizer
41403	Output Selection	0	63	7	Read/Write	41605	Select output
41407	Color Band 1	1	5	4	Read/Write	41605	1 = Red, 2 = Blue, 3 = Green, 4 = Yellow
41408	Percentage Band 1	0	100	20	Read/Write	41605	
41409	Color Band 2	1	5	3	Read/Write	41605	1 = Red, 2 = Blue, 3 = Green, 4 = Yellow
41410	Percentage Band 2	0	100	60	Read/Write	41605	
41411	Color Band 3	1	5	2	Read/Write	41605	1 = Red, 2 = Blue, 3 = Green, 4 = Yellow
41412	Percentage Band 3	0	100	100	Read/Write	41605	
41413	Minimum (Hi word)	-999999999	999999999	0	Read/Write	41605	Minimum value for display
41414	Minimum (Hi word)						
41415	Maximum (Hi word)	-999999999	999999999	200	Read/Write	41605	Maximum value for display
41416	Maximum (Lo word)						
<b>Screen 4</b>							
41501	Display Style	1	6	6	Read/Write	41605	1 = None, 2 = Gauge, 3 = Temperature, 4 = Setpoint Status, 5 = Numeric, 6 = Max Min Total Monitor
41502	Signal Type	1	2	1	Read/Write	41605	1 = Analog Input, 2 = Totalizer
41503	Output Selection	0	63	7	Read/Write	41605	Select output
41507	Color Band 1	1	5	4	Read/Write	41605	1 = Red, 2 = Blue, 3 = Green, 4 = Yellow

REGISTER ADDRESS	REGISTER NAME	LOW LIMIT	HIGH LIMIT	FACTORY SETTING	ACCESS	CONFIG. REGISTER	COMMENTS
41508	Percentage Band 1	0	100	20	Read/Write	41605	
41509	Color Band 2	1	5	3	Read/Write	41605	1 = Red, 2 = Blue, 3 = Green, 4 = Yellow
41510	Percentage Band 2	0	100	60	Read/Write	41605	
41511	Color Band 3	1	5	2	Read/Write	41605	1 = Red, 2 = Blue, 3 = Green, 4 = Yellow
41512	Percentage Band 3	0	100	100	Read/Write	41605	
41513	Minimum (Hi word)	-999999999	999999999	0	Read/Write	41605	Minimum value for display
41514	Minimum (Lo word)						
41515	Maximum (Hi word)	-999999999	999999999	200	Read/Write	41605	Maximum value for display
41516	Maximum (Lo word)						

### Apply Subsystem Changes

To apply configuration, a 1 needs to be written to the corresponding configuration register. Values other than 1 will be ignored and a NAK will be sent back.

41601	Apply analog output configuration	0	1	0	Write-only		
41602	Apply display configuration	0	1	0	Write-only		
41603	Apply hardware key configuration	0	1	0	Write-only		
41604	Apply software key configuration	0	1	0	Write-only		
41605	Apply screen configuration	0	1	0	Write-only		
41606	Apply RS232 configuration	0	1	0	Write-only		
41607	Apply setpoint configuration	0	1	0	Write-only		
41608	Apply analog input configuration	0	1	0	Write-only		
41609	Apply totalizer configuration	0	1	0	Write-only		
41610	Apply RS485 configuration	0	1	0	Write-only		

### Factory Service

41701-41710	Slave ID				Read-only		
-------------	----------	--	--	--	-----------	--	--