HORNER
AUTOMATION GROUP

XL15+ OCS DATASHEET

XL+

MODEL 6
12 DC In, 12 DC Out, 6 – 14/17-bit Analog In (mA/V/Tc/mV/RTD), 4 – 12-bit Analog Out

1   TECHNICAL SPECIFICATIONS

1.1 General

Required Power (Steady State)	2137mA @ 10V (21.37W) 886mA @ 24V (8.86W)
Typical Power -Backlight 100%	800mA @ 24VDC
Power Backlight 50%	385mA (9.6W)
Power Backlight Off	290mA (7W)
Inrush Current	25A for < 1ms @ 24VDC DC
Primary Pwr. Range	18-30VDC
Clock Accuracy	+/- 20 ppm max. at 25ºC (+/- 1 Minutes per Month)
Real Time Clock	With Battery (5-10 Yrs life, Replaceable)
Relative Humidity	5 to 95% Non-condensing
Operating Temp.	-10ºC to +60ºC
Storage Temp.	-30ºC to +70ºC
Weight	7.63 lbs/3.46 kg (without I/O)
Certifications (UL/CE)	North America Europe

1.2 Display

Display Type	15" XGA TFT (500 cd/m^2 typical)
Resolution	1024 x 768
Color	24-bit (16,777,216)
Built-In Storage	4GB
User-Program. Screens	1023 max pages; 1023 objects per page
Backlight	LED – 50,000 hour life
Brightness Control	0-100% via System Register
Touchscreen	Resistive w/laminated cover, 1,000,000+ touch life

1.3 Connectivity

3x Serial Ports	RS-232 full handshaking or RS-485 half duplex on first Modular Jack (MJ1) RS-232 or RS-485 on second Modular Jack (MJ2) RS-232 or RS-485 on third Modular Jack (MJ3) (Software Controlled RS-485 Termination/Biasing)
USB mini-B	USB 2.0 (480Mbps) Programming & Data Access
3x USB A (500mA max)	USB 2.0 (480Mbps) for USB FLASH Drives (2 TB)
2x CAN	125 kbps – 1 Mbps, Remote I/O, Peer-to-Peer Comms, Cscape (Isolated Ports)
2 x Ethernet	1 Gigabit (Auto-MDX), Modbus TCP C/S, HTTP, FTP, SMTP, Cscape, Ethernet IP
Remote I/O	SmartRail, SmartStix, SmartBlock, SmartMod
Removable Memory	MicroSD (SDHC, SDXC IN FAT32 format, support for 128GB max. Application Updates, Datalogging, more
Audio	Beeper, Mic In, Line Out

1.4 Control & Logic

Control Lang. Support	Advanced Ladder Logic Full IEC 1131-3 Languages
Logic Program Size	2MB
Logic Scan Rate	.006ms/kB
Online Programming Changes	Supported in Advanced Ladder
Digital Inputs	2048
Digital Outputs	2048
Analog Inputs	512
Analog Outputs	512
Gen. Purpose Registers	49,999 (words) Retentive 16,384 (bits) Retentive 16,384 (bits) Non-retentive

1.5 High-Speed

Number of Counters	4
Maximum Frequency	1MHz Max
Accumulator Size	32-bits each
Modes Supported	Totalizer, quadrature, pulse measurement, frequency measurement, set-point controlled outputs

1.6 High-Speed Outputs

Modes Supported	Stepper, PWM
Output Frequency	500kHz

XL15+ User Manual [MAN1106]

The User Manual includes extensive information on:
- Built-in I/O
- I/O Status and Calibration
- Common %S & %SR Registers
- HSC/PWM/Totalizer/Quadrature & Accumulator Registers
- Resource Limits

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technical specifications continued...

1.6 Digital DC Inputs

Inputs per Module	12	
Commons per Module	1	
Input Voltage Range	12-24VDC	
Absolute Max. Voltage	30VDC Max.	
Input Impedance	10kΩ	
Input Current:	**Positive Logic:**	**Negative Logic:**
Upper Threshold	0.8mA	-1.6mA
Lower Threshold	0.3mA	-2.1mA
Max. Upper Threshold	8VDC	
Min. Lower Threshold	3VDC	
OFF to ON Response	1ms	
ON to OFF Response	1ms	
Galvanic Isolation	None	
Logic Polarity	Selectable in Cscape	
I/O Indication	None	
High Speed Counter Inputs*	4 (IN 9-12)	
High Speed Counter Max Freq*	1 MHz Max	
Connector Type	3.5 mm Pluggable Cage Clamp Connector	

See I/O info below for detail regarding HSC and PWM

1.7 Digital DC Outputs

Outputs per Module	12
Commons per Module	1
Output Type	Half-Bridge
Absolute Max. Voltage	30VDC Max.
Output Protection	Short Circuit & Overvoltage
Max. Output Current per Point	0.5A
Max. Total Current per Driver (Q1-4, Q5-8, Q9-12)	2A Total Current (All Drivers) UL-Rated, 6A UL Pending
Max. Output Supply Voltage	30VDC
Min. Output Supply Voltage	10VDC
Max. Voltage Drop at Rated Current	0.25VDC
Min. Load	None
I/O Indication	None
Galvanic Isolation	None
OFF to ON Response	150ns
ON to OFF Response	150ns
Output Characteristics	Current Sourcing (Pos. Logic)
PWM Out*	500kHz Max
Rise Time	150ns Max
Fall Time	150ns Max
Modes Supported	Stepper, PWM

1.8 Analog Inputs

Number of Channels	6	Absolute Max. Input Voltage	-0.5 to -12VDC (+/- 30VDC)
Input Ranges (Selectable)	0-20mA; 4-20mA DC; 0-60mV; 0-10VDC; T/C (Ungrounded) : J, K, N, T, E, R, S, B RTD: PT100, PT1000	Input Impedance (Clamped @ -0.5 to 10.23VDC)	T/C / RTD / mV > 2MΩ mA: 15Ω + 1.5V V: 1.1MΩ
Nominal Resolution	17 Bits	Galvanic Isolation	None
%AI Full Scale	10V, 20mA, 60mV: 32,000 counts full scale RTD / T/C: 10 Counts / ˚C	Conversion Speed	Min. All Channels Converted in app. < 250ms or 41ms per channel enable.

Sensor Range and Accuracy	Input Type:	Range:	Accuracy:
	TC J (Ungrounded)	-120 to 1000°C / -184 to 1832°F	+/- 0.2% of full scale +/- 1°C
	TC K (Ungrounded)	-130 to 1372°C / -202 to 2501.6°F	+/- 0.2% of full scale +/- 1°C
	TC T (Ungrounded)	-130 to 400°C / -202 to 752°F	+/- 0.2% of full scale +/- 1°C
	TC E (Ungrounded)	-130 to 780°C / -202 to 1436°F	+/- 0.2% of full scale +/- 1°C
	TC N (Ungrounded)	-130 to 1300°C / -202 to 2372°F	+/- 0.2% of full scale +/- 1°C
	TC R, S (Ungrounded)	20 to 1768°C / 68 to 3214.4°F	+/- 0.2% of full scale +/- 3°C
	TC B (Ungrounded)	500 to 1820°C / 212 to 3308°F *Functions below 500°C with reduced accuracy.	+/- 0.2% of full scale +/- 3°C
	PT100/1000	-200 to 850°C / -328 to 1562°F	+/- 0.15% of full scale
	0-20mA	0-20mA	+/- 0.15% of full scale
	0-60mV	0-60mV	+/- 0.15% of full scale
	0-10V	0-10V	+/- 0.15% of full scale

1.9 Analog Outputs

Number of Channels	4		Response Time	One Update per program logic scan
Output Ranges	0-10VDC 0-20mA, 4-20mA		Minimum Resistance Load	400Ω*
Nominal Resolution	12 Bits		Conversion Speed	Min. All Channels Once per Scan
Max. Error at 25°C (Excluding Zero)	0-20mA	0.1% of full scale	Galvanic Isolation	None
	0-10V	0.1 % of full scale	Temperature Drift Error	20mA 0.000143%/°C
Maximum Loop Voltage	27V			0 - 10V 0.000151%/°C

*Refer to PUN3043

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2.1 - Port Connectors
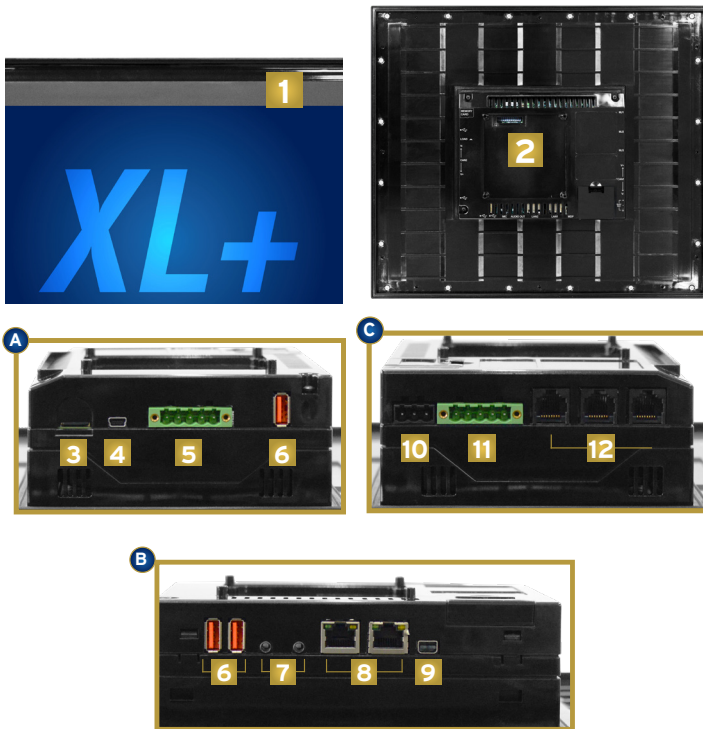
1. Virtual Function Keys Slide in from the Right Upon Touching Top Right Corner of Screen
2. Optional Built-In I/O
3. High Capacity microSD Slot
4. USB Mini-B Port
5. Dual CAN Port
6. USB A Ports (3)
7. Mic Input / Audio Output
8. Dual Ethernet LAN Port
9. Mini Display Port Video Output (Future)
10. Wide-Range DC Power
11. Dual CAN Port
12. RS232/RS485 Serial Ports (3)

NOTE: See Precaution #12 on page 6 about USB and grounding.

2.2 - Power Wiring
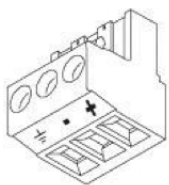
Primary Power Port Pins		
PIN	SIGNAL	DESCRIPTION
1	Ground	Frame Ground
2	DC-	Input Power Supply Ground
3	DC+	Input Power Supply Voltage

DC Input / Frame
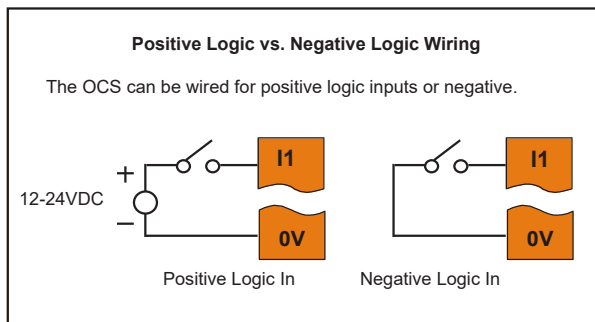**Solid/Stranded Wire:** 12-24 awg (2.5-0.2mm).
Strip length: 0.28" (7mm).
Torque, Terminal Hold-Down Screws: 4.5 – 7 in-lbs (0.50 – 0.78 N-m).

DC- is internally connected to I/O V-, but is isolated from CAN V-.
A Class 2 power supply must be used.

POWER UP
1. OPTION: Attach ferrite core with a minimum of two turns of the DC+ and DC- signals from the DC supply that is powering the controllers.
2. Connect to earth ground.
3. Apply recommended power.

3.1 - Digital Input/Output

Positive Logic vs. Negative Logic Wiring

The OCS can be wired for positive logic inputs or negative.

12-24VDC   Positive Logic In   Negative Logic In

DIGITAL INPUTS
Digital inputs may be wired in either a Positive Logic or Negative Logic fashion as shown. The setting in the Cscape Hardware Configuration for the Digital Inputs must match the wiring used in order for the correct input states to be registered. No jumper settings are required for XL+. When used as a normal input and not for high speed functions, the state of the input is reflected in registers %I1 – %I12.

Digital inputs may alternately be specified for use with High Speed Counter functions, also found in the Hardware Configuration for Digital Inputs. Refer to the XL+ User Manual (MAN1106) for full details.

DIGITAL OUTPUTS
Digital outputs are Positive Logic. If an output is turned on, the voltage supplied at the Vext terminal is applied to that output. When used as normal outputs, the state of the output may be controlled using the registers %Q1 - %Q12.
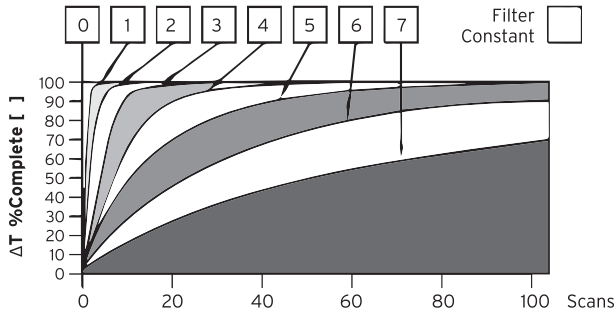
The first two digital outputs may alternately be specified for use as Pulse Width Modulation (PWM) or Stepper outputs. The configuration for these functions is found in the Cscape Hardware Configuration for Digital Outputs. Refer to the XL+ User Manual (MAN1106) for full details.

3.2 - Analog Input

Raw input values for channels 1-4 are found in the registers as Integer-type data with a range from 0 – 32000.
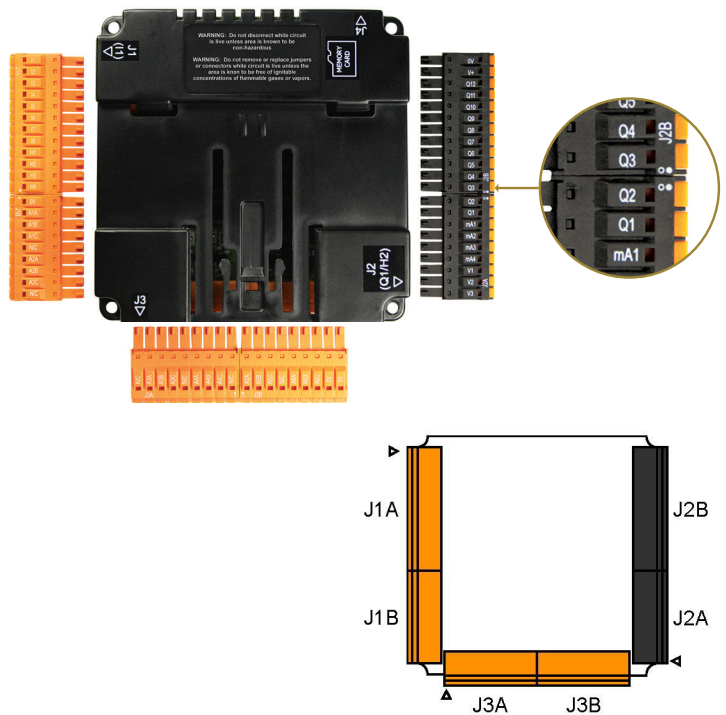
Analog inputs may be filtered digitally with the Filter Constant found in the Cscape Hardware Configuration for Analog Inputs. Valid filter values are 0 – 7 and act according to the following chart.
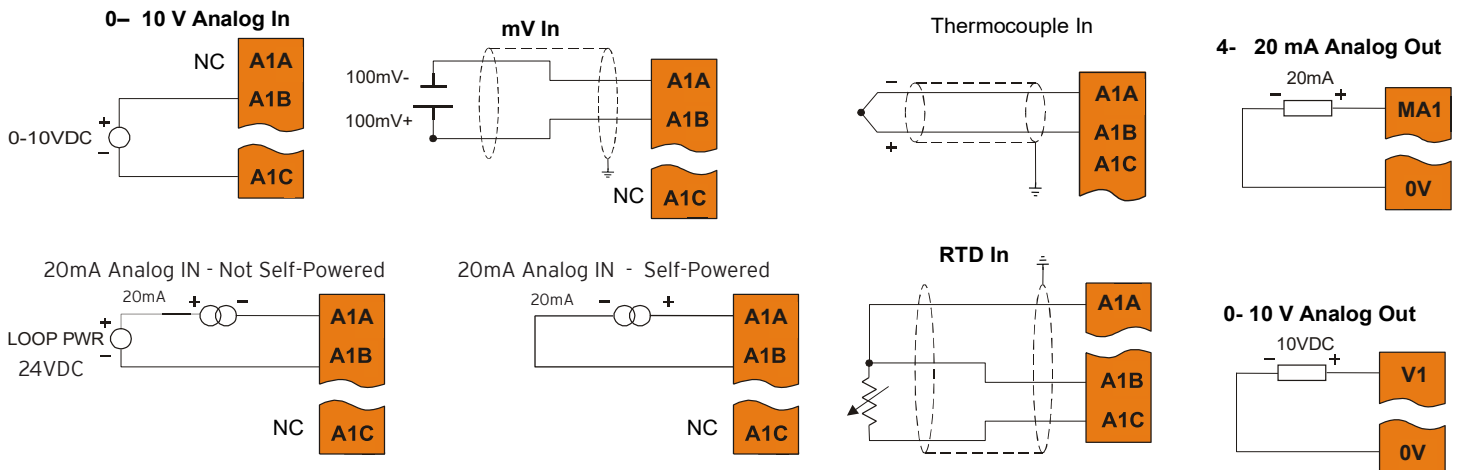

Filter Constant: 0 1 2 3 4 5 6 7

Data Values	
INPUT MODE:	**DATA FORMAT, 12-bit INT:**
0-20mA, 4-20mA	0-32000
0-10V	0-32000
T/C & RTD	°C or °F may be selected in the Hardware Configuration section in Cscape. The raw value is an integer, so the user should divide by 10.

For ease of operability, the high density terminals are divided into more manageable pairs of connectors (J1A + J1B, J2A + J2B, J3A + J3B). To ensure proper installation, connector symbols must match.

3.3 - Connector Overview

J1A J2B

J1B J2A

J3A J3B

Ex: Universal Input Wiring Schematic

0– 10 V Analog In

NC A1A
A1B
0-10VDC
A1C

mV In

100mV-
100mV+
A1A
A1B
NC A1C

Thermocouple In

A1A
A1B
A1C

4- 20 mA Analog Out

20mA
MA1
0V

20mA Analog IN - Not Self-Powered

LOOP PWR
24VDC
20mA
A1A
A1B
NC A1C

20mA Analog IN - Self-Powered

20mA
A1A
A1B
NC A1C

RTD In

A1A
A1B
A1C

0- 10 V Analog Out

10VDC
V1
0V

NOTE: Depending on the input type, isolated loop power may be required.

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3.4 - Connector Wiring

J1 Wiring

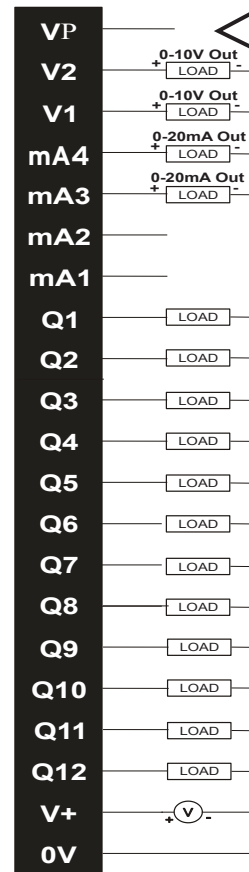| J1 (Orange/Green)	Name	
	I1	IN1
	I2	IN2
	I3	IN3
	I4	IN4
J1A	I5	IN5
	I6	IN6
	I7	IN7
	I8	IN8
	H1	HSC1 / V IN9
	H2	HSC2 / V IN10
	H3	HSC3 / V IN11
	H4	HSC4 / V IN12
	0V	Common
	A1A	Univ. AI 1 Pin 1
	A1B	Univ. AI 1 Pin 2
	A1C	Univ. AI 1 Pin 3
J1B	NC	No Connect
	A2A	Univ. AI 2 Pin 1
	A2B	Univ. AI 2 Pin 2
	A2C	Univ. AI 2 Pin 3
	NC	No Connect
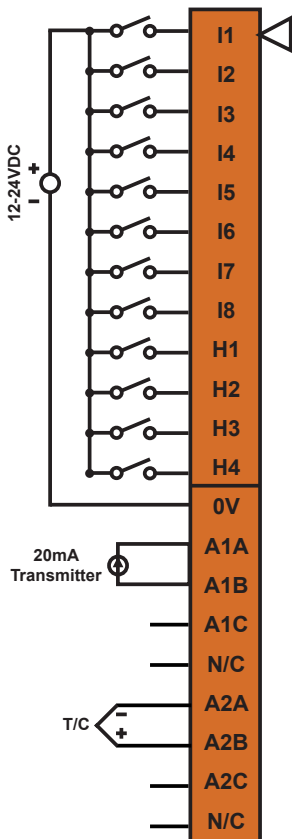
NOTE: * Both mA & V outputs are active for each output channel, however, only the configured output type is calibrated (maximum 4 channels simultaneously).

#### J2 Wiring

J2 (Black/Green)	Name	
	V3	V OUT 3*
	V2	V OUT 2*
	V1	V OUT 1*
	mA4	mA OUT 4*
J2A	mA3	mA OUT 3*
	mA2	mA OUT 2*
	mA1	mA OUT 1*
	Q1	OUT 1 / PWM1
	Q2	OUT 1 / PWM2
	Q3	OUT 3
	Q4	OUT 4
	Q5	OUT 5
	Q6	OUT 6
	Q7	OUT 7
J2B	Q8	OUT 8
	Q9	OUT 9
	Q10	OUT 10
	Q11	OUT 11
	Q12	OUT 12
	V+	V External+
	0V	Common

J3 Wiring

J3 (Orange/Green)	Name	
	NC	No Connection
	A3A	Univ. AI 3 Pin 1
	A3B	Univ. AI 3 Pin 2
	A3C	Univ. AI 3 Pin 3
Univ. AI	NC	No Connection
	A4A	Univ. AI 4 Pin 1
	A4B	Univ. AI 4 Pin 2
	A4C	Univ. AI 4 Pin 3
	NC	No Connection
	A5A	Univ. AI 5 Pin 1
	A5B	Univ. AI 5 Pin 2
	A5C	Univ. AI 5 Pin 3
Univ. AI	NC	No Connection
	A6A	Univ. AI 6 Pin 1
	A6B	Univ. AI 6 Pin 2
	A6C	Univ. AI 6 Pin 3
	0V	Common
	V4	V OUT 4*

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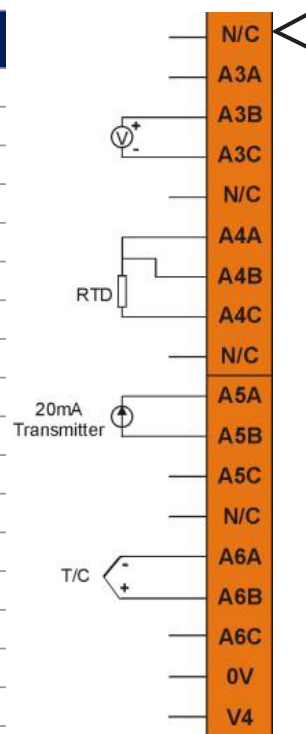
4 COMMUNICATIONS

4.1 - CAN Communications

| PIN	SIGNAL	DESCRIPTION
CAN Pin Assignments		
1	V–	CAN Ground – Black
2	CN L	CAN Data Low – Blue
3	SHLD	Shield Ground – None
4	CN H	CAN Data High – White
5	V+ (NC)	No Connect – Red

Solid/Stranded Wire: 12-24 awg (2.5-0.2mm).
Strip Length: 0.28″ (7mm).
Locking spring-clamp, two-terminators per conductor.
Torque, Terminal Hold-Down Screws: 4.5 – 7 in-lbs (0.50 – 0.78 N-m).
V+ pin is not internally connected, the SHLD pin is connected to Earth ground via a 1MΩ resistor and 10 nF capacitor.
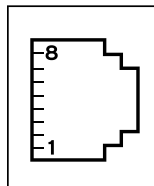
4.2 - Ethernet Communications
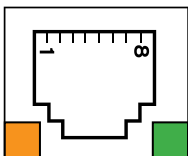
Green LED indicates link – when illuminated, data communication is available.

Orange LED indicates activity – when flashing, data is in transmission.

4.3 - Serial Communications

MJ1: RS-232 w/full handshaking or RS-485 half-duplex via software switch

RS-485 termination and biasing via software

PIN	SIGNAL	DIRECTION
MJ1 PINS		
8	TXD	OUT
7	RXD	IN
6	0V	GROUND
5	+5V @ 60mA	OUT
4	RTS	OUT
3	CTS	IN
2	RX-/TX-	IN/OUT
1	RX+/TX+	IN/OUT

MJ2/3 SERIAL PORTS

RS-232 or RS-485 half or full-duplex, software selectable

RS-485 termination and biasing, software selectable

PIN	SIGNAL	DIRECTION
MJ2/3 PINS		
8	TXD RS232	OUT
7	RXD RS232	IN
6	0V	Ground
5	+5V @ 60mA	OUT
4	TX- RS485	OUT
3	TX+ RS485	OUT
2	RX- RS485	IN
1	RX+ RS485	IN

Attach optional ferrite core with a minimum of two turns of serial cable. See website for more details. [Part #: HE-FBD001]

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The I/O is mapped into OCS Register space, in three separate areas: Digital/Analog I/O, High-Speed Counter I/O, and High-speed Output I/O. Digital/Analog I/O location is fixed starting at 1, but the high-speed counter and high-speed output references may be mapped to any open register location. For more details, see the XL15+ OCS User's Manual.
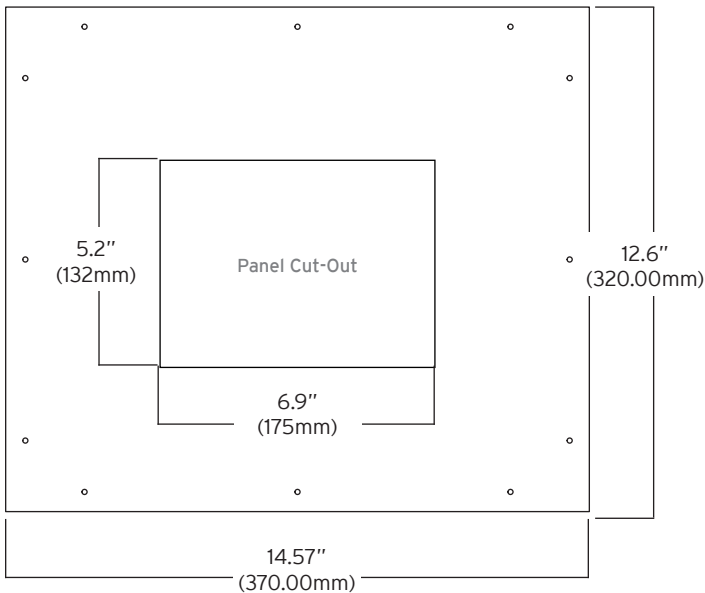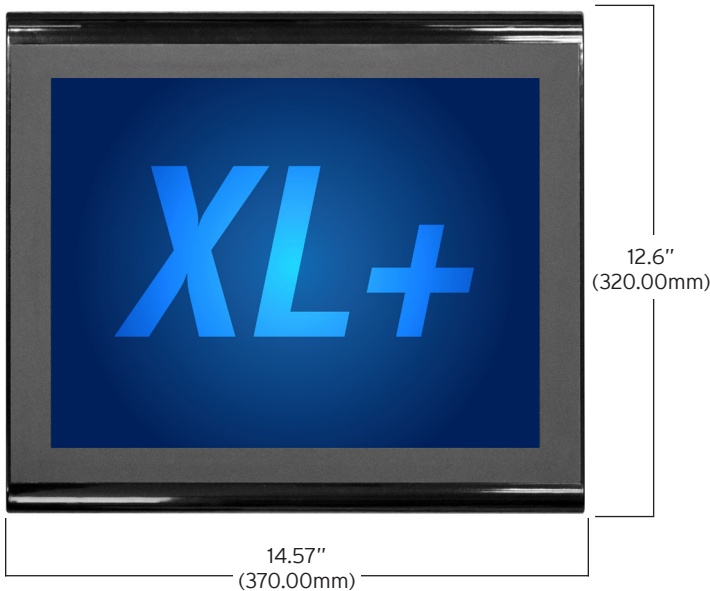
Digital and Analog I/O Functions	
Digital Inputs	%I1-12
Reserved	%I13-31
ESCP Alarm	%I32
Digital Outputs	%Q1-12
Reserved	%Q13-24
Analog Inputs	%AI33-38
Reserved	%AI1 -32
Analog Outputs	%AQ9-12
Reserved	%AQ1-8

Status Register								
Register	**Description**							
%R1	Bit-wise status register enable: Set %R1.1 - %R1.9 high to enable for registers %R2 to %R9.							
%R2	Firmware version							
%R3	Watchdog count - cleared on power-up.							
%R4	Status Bits:			16...4		3	2	1
				Reserved		Normal	Config	Calibration
%R5	Scan rate of the 106 board (average) in units of 100µs.							
%R6	Scan rate of the 106 board (max) in units of 100µs.							
%R7	Channel Status: Channel 2				Channel 1			
	8	7	6	5	4	3	2	1
	Open RTD	Out of Limits	Shorted RTD	Open Sensor	Open RTD	Out of Limits	Shorted RTD	Open Sensor
%R8	Channel Status: Channel 4				Channel 3			
	8	7	6	5	4	3	2	1
	Open RTD	Out of Limits	Shorted RTD	Open Sensor	Open RTD	Out of Limits	Shorted RTD	Open Sensor
%R9	Channel Status Channel 6				Channel 5			
	8	7	6	5	4	3	2	1
	Open RTD	Out of Limits	Shorted RTD	Open Sensor	Open RTD	Out of Limits	Shorted RTD	Open Sensor
%R10-14	Reserved							

NOTE: For the purposes of the example, the block is shown starting at %R1, but it can be set to anywhere in the %R memory map.

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6.1 - Dimensions

12.6"
(320.00mm)

14.57"
(370.00mm)

4.08"
(103.63mm)

5.2"
(132mm)

Panel Cut-Out

6.9"
(175mm)

12.6"
(320.00mm)

14.57"
(370.00mm)

Panel Tolerance: +/-0.5mm

NOTE: For mounting template, please refer to MAN1124.

6.2 - Installation Procedure

The XL15+ is a panel mounted device and is meant to be an enclosure suitable for the equipment, such that the equipment is only accessible with the use of a tool. The XL15+ is suitable for use in Class I, Division II, Groups F and G, and Class III Hazardous Locations or non-hazardous locations only.

The XL15+ allows unique installation options that simplify installation for systems that may not need robust vibration or water resistance.

If the system does not experience shock or vibration and will not be exposed to weather or wash down conditions the unit can be installed by cutting the rectangular opening and installing the four supplied clips.

For systems that may experience shock or vibration or are installed outdoors or in wash down environments, the rectangular cut and clips are used and perimeter holes must be drilled in the panel. The supplied studs are then inserted into the perimeter of the controller and supplied nuts will secure the perimeter of the unit to the panel.

Please reference the XL15+ Quick Reference Guide (MAN1124) for Mounting Template.

1. Remove all connectors from the XL15+ OCS unit.
2. Carefully locate an appropriate place to mount the XL+. Be sure to leave enough room at the top of the unit for insertion and removal of the microSD card. Also leave enough room at the bottom for the insertion and removal of USB FLASH drives and wiring
3. Carefully cut the host panel per the diagram, with a tolerance of +/- 0.5mm. Remove any burrs/sharp edges and ensure the panel is not warped in the cutting process. - If the opening is too large, water may leak into the enclosure, potentially damaging the OCS. If the opening is too small, the OCS may not fit through the hole without damage.
4. Make sure both inner and outer gaskets are installed on the XL15+ OCS and are free from dust and debris. Check that the corners of the gasket are secure. Insert the OCS through the panel cutout (from the front). The gasket needs to be between the host panel and the OCS.
5. The two (2) spring clips will latch the unit in the panel.
6. Insert each of the four (4) mounting clips into the slots in the XL15+ OCS case. One clip should be installed on each corner. Lightly tighten each screw so the clip is held in place.
6. Tighten the screws on the clips such that the gasket is compressed against the panel. Recommended torque is 7-10 in-lbs (0.79-1.13 Nm). If the perimeter studs are needed, it is recommended to use a thread locker (similar to 242 Blue Loctite). Use supplied lock washers and nut. NOTE: Recommended torque is 3-4 in-lbs (0.34-0.45 Nm).
7. Reinstall the I/O Removable Terminal Blocks. Connect communications cables to the serial port, USB ports, Ethernet port, and CAN port as required.

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7 SAFETY

7.1 - WARNINGS

1. To avoid the risk of electric shock or burns, always connect the safety (or earth) ground before making any other connections.
2. To reduce the risk of fire, electrical shock, or physical injury, it is strongly recommended to fuse the voltage measurement inputs. Be sure to locate fuses as close to the source as possible.
3. Replace fuse with the same type and rating to provide protection against risk of fire and shock hazards.
4. In the event of repeated failure, do NOT replace the fuse again as repeated failure indicates a defective condition that will NOT clear by replacing the fuse.
5. Only qualified electrical personnel familiar with the construction and operation of this equipment and the hazards involved should install, adjust, operate, or service this equipment. Read and understand this manual and other applicable manuals in their entirety before proceeding. Failure to observe this precaution could result in severe bodily injury or loss of life.
6. WARNING - EXPLOSION HAZARD - Do not disconnect equipment while the circuit is live or unless the area is known to be free of ignitable concentrations.
7. WARNING - Do not replace the lithium battery while the device is energized. The device is intended for use with one lithium battery installed. This device shall not be operated with more than one lithium battery installed.

7.2 - FCC COMPLIANCE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference
2. This device must accept any interference received, including interference that may cause undesired operation

7.3 - PRECAUTIONS

All applicable codes and standards need to be followed in the installation of this product. Adhere to the following safety precautions whenever any type of connection is made to the module:
1. Connect the safety (earth) ground on the power connector first before making any other connections.
2. When connecting to the electric circuits or pulse-initiating equipment, open their related breakers.
3. Do NOT make connection to live power lines.
4. Make connections to the module first; then connect to the circuit to be monitored.
5. Route power wires in a safe manner in accordance with good practice and local codes.
6. Wear proper personal protective equipment including safety glasses and insulated gloves when making connections to power circuits.
7. Ensure hands, shoes, and floor are dry before making any connection to a power line.
8. Make sure the unit is turned OFF before making connection to terminals.
9. Make sure all circuits are de-energized before making connections.
10. Before each use, inspect all cables for breaks or cracks in the insulation. Replace immediately if defective.
11. Use copper conductors in Field Wiring only, 60/75°C.
12. Use caution when connecting controllers to PCs via serial or USB. PCs, especially laptops,may use "floating power supplies" that are ungrounded. This could cause a damaging voltage potential between the laptop and controller. Ensure the controller and laptop are grounded for maximum protection. Consider using a USB isolator due to voltage potential differences as a preventative measure.

8 BATTERY MAINTENANCE

The XL15+ uses a replaceable non-rechargeable 3V Lithium coin-cell battery to run the Real-Time Clock and to keep the retained register values. This battery is designed to maintain the clock and memory for 7-10 years. Please reference MAN1106 providing instructions on how to replace the battery.

9 ACCESSORIES

9.1 Backup Battery: HE-BAT013
The XL15+ uses a Renata CR2032 lithium battery to run the Real-Time Clock and to maintain the retained register values. This battery is designed to maintain the clock and memory for 7-10 years.

9.2 Programming Cables Kit: HE-XCK
This programming cable kit includes the following adapter cables:
- USB to MiniUSB
- USB to RS-232 Serial
- RS-232 Serial to RJ45 Ethernet

9.3 2/4 Channel Analog Output Kit
- HE-XDAC007 - 2 Channel Analog Output I/O Kit
- HE-XDAC107 - 4 Channel Analog Output I/O Kit

Visit the Horner Website to purchase accessories.

10 PART NUMBER

	North American	European
Model 6	HE-XP7E6	HEXT751C116

11 TECHNICAL SUPPORT

For assistance and manual updates, contact Technical Support at the following locations:

North America
(317) 916-4274
(877) 665-5666
www.hornerautomation.com
techsppt@heapg.com

Europe
(+) 353-21-4321-266
www.hornerautomation.eu
technical.support@horner-apg.com

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