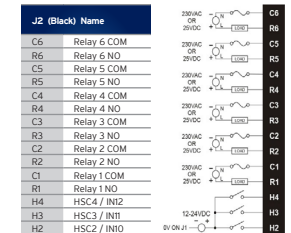
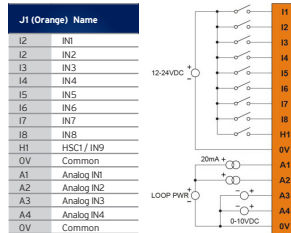


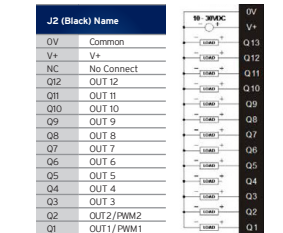
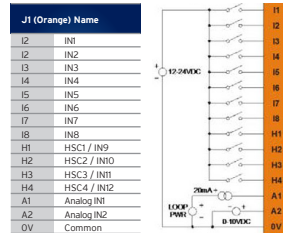
MODEL 2:

12 DC In, 6 Relay Out, 4 - 12-bit Analog IN



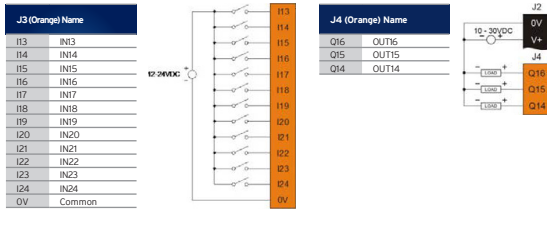
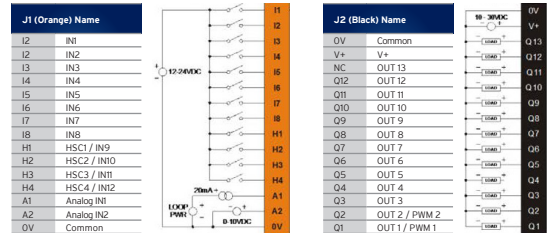
MODEL 3:

12 DC In, 12 DC Out, 2 - 12-bit Analog IN



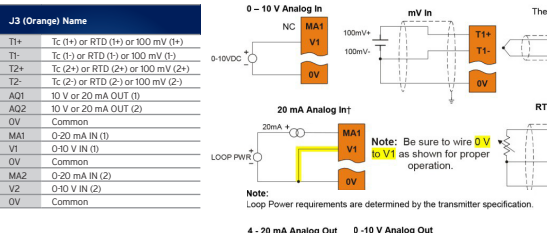
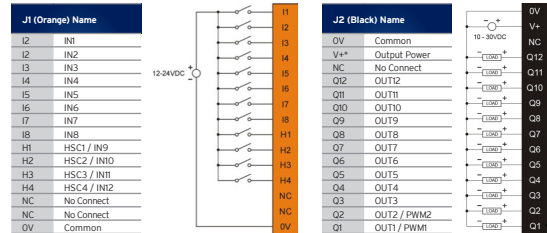
MODEL 4:

24 DC In, 16 DC Out, 2 - 12-bit Analog IN



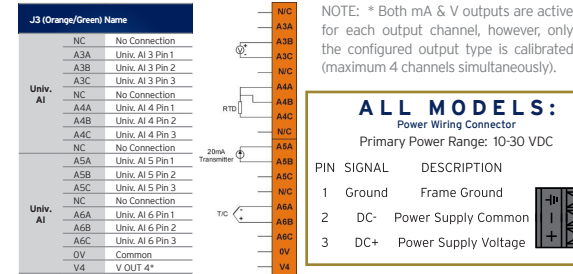
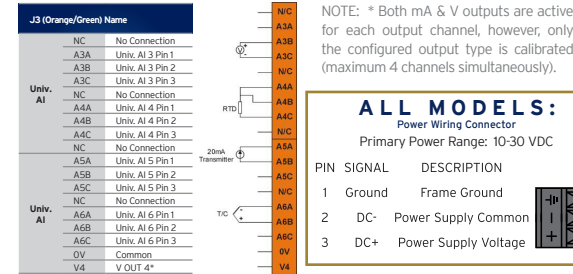
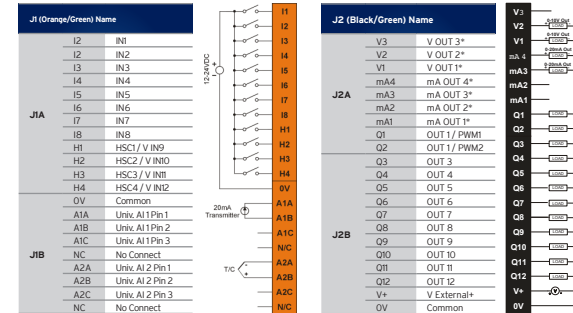
MODEL 5:

12 DC In, 12 DC Out, 2 - 14/16-bit Analog IN (mA/V/Tc/mV/RTD), 2 - 12-bit Analog Out



MODEL 6:

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



NOTE: * Both mA & V outputs are active for each output channel, however, only the configured output type is calibrated (maximum 4 channels simultaneously).

ALL MODELS:
Power Wiring Connector
Primary Power Range: 10-30 VDC

PIN	SIGNAL	DESCRIPTION
1	Ground	Frame Ground
2	DC-	Power Supply Common
3	DC+	Power Supply Voltage

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. Do not disconnect while circuit is live unless area is known to be non-hazardous.
13. Do not remove or replace jumpers or connectors while circuit is live unless the area is known to be free of ignitable concentrations of flammable gases or vapors.
14. EXPLOSION HAZARD - substitution of components may impair suitability for Class I, Division 2.
15. Use caution when making connections to the controller to protect against static discharge. Special care must be taken when replacing the battery or inserting or adjusting I/O or communication boards.
16. Use caution when connecting controllers to PCs via serial or USB. PCs and especially laptops may use "floating power supplies" what are ungrounded. This could cause a voltage potential between the laptop and controller. Make sure the controller and laptop are grounded for maximum protection.
17. For protection of USB devices the part number HE-USBISO is available to purchase from our website or your local distributor.
18. Failure to follow these guidelines can damage the controller and/or controller.

Hazardous Location Notice

Power, input and output (I/O) wiring must be in accordance with Class 1, Division 2 wiring methods [Article 501-4(b) of the National Electrical Code, NFPA 70] for installations in the U.S. or as specified in Section 18-1J2 of the Canadian Electrical Code for installations within Canada and in accordance with the authority having jurisdiction.

1. THIS EQUIPMENT IS SUITABLE FOR USE IN CLASS I, DIVISION 2, GROUPS A B C D or NON-HAZARDOUS LOCATIONS ONLY.
2. WARNING - EXPLOSION HAZARD - SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.
AVERTISSEMENT - RISQUE D'EXPLOSION LA SUBSTITUTION DE COMPOSANTS PEUT RENDRE CE MATE RIEL INACCEPTABLE POUR LES EMPLACEMENTS DE CLASSE I, DIVISION 2
3. WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS AND FREE OF IGNITABLE CONCENTRATIONS.
ATTENTION - RISQUE D'EXPLOSION - NE DECONNECTEZ PAS L'EQUIPEMENT A MOINS DE L'AVOIR MIS HORS TENSION OU QUE LA ZONE EST CONNUE NON-DANGEREUSE ET NE CONTIENT PAS DE CONCENTRATIONS INFLAMMABLES.

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

Technical Support

For further details, please refer to the Datasheets, MAN1112 - MAN1117. For assistance and manual updates, contact Technical Support at the following locations:

North America

+1 (317) 916-4274
www.hornerautomation.com
techsppt@heapg.com

Europe

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

Port Connectors / Panel Cut-Out



1. Touchscreen
2. Function Keys
3. High Capacity microSD Slot
4. Configuration Switches
5. USB Mini-B Port
6. Wide-Range DC Power
7. CAN Port
8. Ethernet LAN Port
9. USB A Port
10. RS232/RS485 Serial Port



MAN1136-01-EN

XL4 OCS CONTROLLERS

General Specifications

Model 0 Typical power-backlight 100%	239 mA @ 10 V (2.39 W), 103 mA @ 24 V (2.47 W)
Model 2 Typical power-backlight 100%	370 mA @ 10 V (3.70 W), 160 mA @ 24 V (3.84 W)
Model 3 Typical power-backlight 100%	267 mA @ 10 V (2.67 W), 155 mA @ 24 V (3.72 W)
Model 4 Typical power-backlight 100%	276 mA @ 10 V (2.76 W), 171 mA @ 24 V (4.10 W)
Model 5 Typical power-backlight 100%	442 mA @ 10 V (4.42 W), 221 mA @ 24 V (5.30 W)
Model 6 Typical power-backlight 100%	426 mA @ 10 V (4.26 W), 189 mA @ 24 V (4.54 W)
Power Backlight Off	-24 mA @ 24 VDC (0.58 W)
Power Backlight at 50%	-18 mA @ 24 VDC (0.43 W)
Inrush Current	2 A for <1 ms @ 24 VDC DC Switched
Primary Pwr. Range	10-30 VDC
Real Time Clock	Yes, battery backed
Clock Accuracy	+/- 20 ppm maximum at 25°C (+/- 1 min/month)
Relative Humidity	5 to 95% , Non-condensing
Operating Temp.	-10°C to +60°C
Storage Temp.	-20°C to +70°C
Weight	12 oz/340 g (without I/O)
Certifications (UL/CE)	USA: https://hornerautomation.com/certifications/ Europe: http://www.horner-apg.com/en/support/certification.aspx