



X OCS MODEL: HE-X5

Built-In I/O: 4 Digital DC Inputs, 4 Digital DC Outputs, 4 Analog Inputs

1 - General Specifications

Display	4.3" WVGA Color Touchscreen
Primary Pwr. Range	10-30 VDC
Required Pwr. (steady state)	270 mA at 12 VDC, 150 mA at 24 VDC
Required Pwr. (inrush)	20 A for <1ms at 24 V DC Switched
Battery	Non-removable (RTC only)
Battery Life	5-10 Yrs Not Replaceable
Relative Humidity	5-95% non-condensing
Operating Temp.	-10° C to +60° C
Storage Temp.	-30° C to +70° C
Weight	10 oz / 271 g
Certifications (CE)	USA: http://www.heapg.com/content/21-certifications Europe: http://www.horner-apg.com/en/support/certifications.aspx

2 - Port Connectors / Panel Cut-Out



- 1. Power 4. CAN Port 7. Ethernet Port 9. USB A Port
- 2. Input Connector 5. Serial Ports 8. microSD Slot 10. USB Mini B Port
- 3. Output Connector 6. DIP Switches

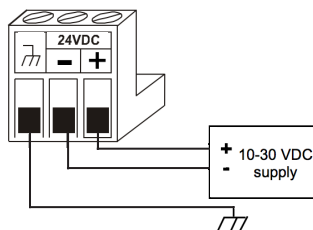
Panel Cut-Out

3.58" (91mm) x 4.675" (118.75mm)

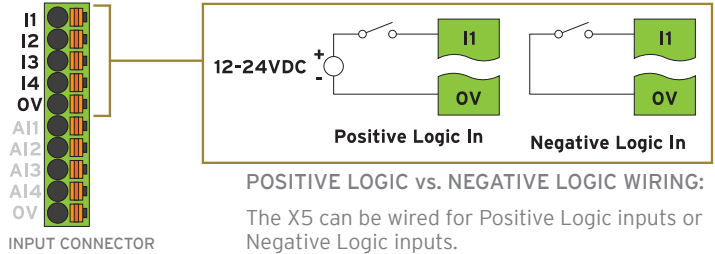
3 - Power Wiring

POWER UP:

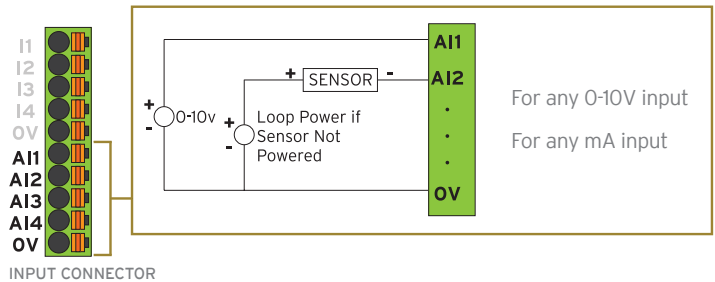
- Connect to Earth Ground
- Apply 10 - 30 VDC
- Torque rating 4.5 - 7 Lb-In (0.50 - 0.78 N.m)



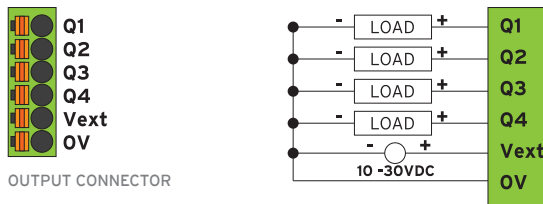
4 - Digital Input Wiring



5 - Analog Input Wiring



6 - Digital Output Wiring



7 - 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

8 - 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.

9 - Technical Support

For further details, please refer to the X5 Datasheet, MAN1040. 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