

# X2 OCS

## A Powerful Intro to a Complete Line of Industrial Control Solutions

Utilizing comprehensive, built-in I/O to empower organizations across a multitude of industries.



### APPLICATIONS

#### Agriculture

- Reduce energy consumption
- Increase overall productivity

#### Building Automation

- Improve occupant comfort
- Economical operation systems

#### Material Handling

- Minimize HMI inefficiencies
- Track/log/catalog data

#### Oil and Gas

- Maximize capacity utilization
- Maintain emission standards

#### Renewable Energy

- Data logging, remote access
- Sunlight and UV protection

#### Water/Wastewater

- Station pump control
- Remote water well controls

### MINIMAL PHYSICAL DESIGN

The small, sleek profile of the X2 enables you to fit more in your panel, saving space and resources. For an introductory product, the X2 packs a big picture into an overall small package. With just a 4.6" x 3.5" cutout, the overall design of the X2 is powerful, reliable, and durable.

### COMPREHENSIVE I/O CONFIGURATION

In an effort to make implementing Horner OCS controllers as seamless and user-friendly as possible, we have selected a streamlined set of on-board I/O. The wide scope of digital and analog I/O make automating your applications, and your organization, as simple as the push of a button. If the built-in I/O of the X2 isn't enough for your specific application, you can easily expand via CAN or serial.

### FLEXIBILITY

In the market of fixed I/O, stand-alone controllers, the X2 is unmatched. Suited for most applications across a diverse range of industries, the X2 exceeds standards (and expectations). The intuitive user interface, rugged durability, and suite of capabilities within the X2 are similar to our more established XL line of products.

### COMPETITIVE ADVANTAGE

With the addition of the X2 OCS controller, our engineers at Horner Automation have designed a slim, versatile, and complimentary product to our existing line of robust industrial solutions. The X2, when utilized as an introductory piece, empowers your organization to grow by seamlessly incorporating additional Horner solutions (such as our more advanced X4 or premium X5 OCS controllers) to your expanding system.

# SPECIFICATIONS AND TECHNICAL INFORMATION



## PHYSICAL CHARACTERISTICS

- 1 Function keys
- 2 USB mini-B port
- 3 High capacity microSD slot
- 4 DC outputs
- 5 DC inputs
- 6 Analog I/O
- 7 RS232/RS485 serial port
- 8 DC power
- 9 CAN port (via RJ45)

CONTROLLER	
CPU	32 Bit Arm
Logic Scan Rate	1.2 mS/K
Built-In Storage	16MB
Removable Memory	32GB microSD
Retentive Storage	32K Battery-Backed Ram
Programming Languages	Advanced Ladder or IEC: ST, LD, FBD, IL, SFC
USER INTERFACE	
Display Technology	2.2" Transflective with LED
Resolution / Color	128 x 64, Monochrome
Keypad	20 Key Domed Membrane
CONNECTIVITY	
Serial Ports	1 Port with RS-232 and RS-485
USB Ports (Mini-B)	1 Programming
CAN	1 Port 125K - 1 MB
OPERATING SPECS. & STANDARDS	
Primary Power Range	24VDC +/- 10%
Operating Temperature	-10° to 60° C
Humidity	5 to 95% Non-Condensing
Ratings	IP65, CE, UL Type 1, 4x, 12, 12k, 13** (Indoor use only)

PHYSICAL SPECIFICATIONS	
Dimensions	mm: 89.76 tall x 119.18 wide x 35.8 total depth in: 3.53 tall x 4.69 wide x 1.41 total depth
Weight	270g / 9.5oz
STANDARD ONBOARD I/O	
Total Digital Inputs	12 x 24VDC Sinking/Sourcing
Analog Inputs	4 x 4-20mA
Analog Outputs	2 x 4-20mA
High Speed Inputs	4 @ 10kHz
High Speed Outputs	2 @ 65kHz
Remote I/O	All Models Support SmartRail, SmartBlock, SmartStix, SmartMod, various 3rd party I/O devices
MODEL-DEPENDENT OUTPUTS	
HE-X2A	12 x 24VDC Sourcing 0.5A
HE-X2R	6 x Relay 3A, 2 x Sinking 0.5A
HE-X2Starter	Starter Kit with 6 x Relay 3A, 2 x Sinking 0.5A

## ACCESSORIES



SmartRail Modular I/O



SmartStix Terminal Block I/O