





X10 Micro OCS

A Premium Addition to a Suite of Built-In I/O Control Solutions

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



APPLICATIONS

Agriculture

- Greenhouse automation
- Enhanced resource management

Building Automation

- Comprehensive system
- Upgrade for obsolete controls

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 controls
- Remote water well controls

COMPREHENSIVE ADVANTAGE

With the addition of the X10 Micro OCS controller, our engineers at Horner Automation have designed a slim, versatile, and complimentary product to our existing line of robust industrial solutions. The X10, when utilized as an introductory piece, empowers your organization to grow by seamlessly incorporating additional Horner solutions (such as our more basic X4, and X7 Micro OCS controllers) to your expanding system.

POWERFUL CONTROL SOLUTION

In the market of cost-effective all-in-one controllers, the web-compatible X10 is unmatched in its abilities to control, communicate, and log data. Suited for applications across a diverse range of industries, the X10 exceeds standards (and expectations). With its efficient processor speed and larger, intuitive user interface, the suite of capabilities within the X10 expand upon our established X4 and X7 products.

FLEXIBLE I/O CONFIGURATION

In an effort to make the latest Horner Micro OCS controller as widely applicable as possible, the X10 has been designed with a streamlined set of onboard I/O supporting an impressive array of applications. Discrete manufacturing is well supported with 20-24 digital I/O points - including high-speed inputs and outputs. Are your requirements process oriented? The X10 includes analog inputs and outputs, with support for 4-20mA signals and RTD temperature sensors. If the built-in I/O isn't enough for your specific application - easily expand via Ethernet, CAN, or RS-485.

SPACE-SAVING DESIGN

The wide, sleek profile of the X10 enables you to fit more in your panel, saving space and resources. The X10 packs a big picture into an overall small package. With just a 6.88" x 5.193" cutout, this 10" wide aspect screen is intuitive, and clear.







SPECIFICATIONS AND TECHNICAL INFORMATION







CPU

Ratings



32-bit ARM with Integrated Graphics Controller

0.0	OE DICTARM MICH Integrated Graphics Controller			
Logic Scan Rate	0.4 mS/K			
Built-In Storage	16MB			
Removable Memory	Up to 32GB microSD			
Retentive Storage	128K Battery-Backed Ram			
Programming Languages	Advanced Ladder or Full IEC 61131-3 languages			
USER INTERFACE				
Display Technology	10" Wide			
Resolution / Color	1024 x 600, 65K Colors			
Touch Screen	Resistive			
CONNECTIVITY				
Serial Ports	1 Port with RS-232 and RS-485			
USB Ports (Mini-B)	USB 2.0 Programming only			
Ethernet	1x10Mbps/100Mbps			
CAN	125kB, 250kB, 500kB, 1 Mb			
OPERATING SPECS. & STANDARDS				
Primary Power Range	9 - 30VDC			
Operating Temperature	-10° to 60° C			
Humidity	5 to 95% Non-Condensing			

CONTROLLER

PHYSICAL CHARACTERISTICS

- Touchscreen
- 2 High Capacity
 - MicroSD Slot
- **3** RS232/RS485 Serial Connector, CAN Port (via RJ45) **Ethernet LAN Port**
- USB mini-B port

- 5 Analog I/O, DC Inputs, DC Outputs
- 6 DC Power

PHYSICAL SPECIFICATIONS			
Dimensions	mm: 264.998 wide x 167.818 tall x 52.07 overall depth in: 10.433 wide x 6.607 tall x 2.05 overall depth		
Weight	590g / 20.8oz		
STANDARD ONBOARD I/O			
Total Digital Inputs	12 x 24VDC Sinking/Sourcing		
Analog Inputs	4 x 4-20mA, or 2 x RTD*		
Analog Outputs	2 x 4-20mA		
High Speed Inputs	4 @ 500kHz		
High Speed Outputs	2 @ 65kHz		
Remote I/O	All Models Support SmartRail, SmartBlock, SmartStix, SmartMod, various 3rd party I/O devices		
*A 3rd and 4th RTD channel is available if Analog Outputs are not used			

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MODEL-DEPENDENT OUTPUTS				
HE-X10A	12 x 24VDC Sourcing 0.5A			
HE-X10R	6 x Relay 3A, 2 x Sinking 0.5A			
INPUTS/OUTPUTS MODEL OVERVIEW				
	MODEL R	MODEL A		

INPUTS/OUTPUTS MODEL OVERVIEW			
	MODEL R	MODEL A	
DC In	12	12	
DC Out	2	12	
Relays	6	-	
HS In	4	4	
HS Out	2	2	
Analog In	mA x 4 or RTD* x 4	4	
Analog Out	mA x 2	2	
*A 3rd and 4th RTD channel is available if Analog Outputs are not used			

There are four high-speed inputs of the total DC Inputs. There are two high-speed outputs of the total DC outputs.

Model A supports sourcing outputs. Model R DC outputs are sinking with integral pull up resistors.

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Class 1 Div II, CE, IP66, UL Type 1, 4x,

12, 12k, 13** (Indoor use only)