HORNER
AUTOMATION GROUP

MADE IN USA · CE

X5 OCS

The Right All-In-One Controller, At Exactly the Right Time

Redefining industry standards through a wide aspect color screen, streamlined I/O, and advantageous performance.

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

WIDE ASPECT COLOR TOUCHSCREEN

The X5 really packs a big picture into an overall small package. With just a 4.6″ x 3.5″ cutout, this 4.3″ wide aspect screen is very friendly, intuitive, and clear. By incorporating our hidden soft key technology, you can use the entire screen to illustrate your specific applications.

STREAMLINED I/O

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. 4 digital inputs, 4 digital outputs, and 4 analog inputs make automating your applications, and your organization, as simple as the push of a (virtual) button.

PERFORMANCE

When it comes to speed, resolution, and technical capabilities, the X5 is leading the way. We have developed an entirely new design techniques, yielding fast processor speeds, a suite of capabilities similar to our more established XL line of products, and unprecedented acceptance across an array of commercial and industrial applications. In the market of fixed I/O, web-compatible controllers, the X5 is unmatched.

COMPETITIVE ADVANTAGE

The simplistic overall design of the X5 has empowered our team of driven engineers to develop a product at the forefront of leading technology, creating an opportunity to take advantage of commercial economies of scale. The state-of-the-art design, coupled with economic efficiencies position the X5 as more than a technological milestone – it's a competitive industrial leader.

Please visit our website for a complete listing and to learn more about certified Horner Automation products.

HA-209R1

PHYSICAL CHARACTERISTICS

1 Virtual function keys slide in from the right on command

2 USB mini-B port

3 High capacity microSD slot

4 4 DC inputs, 4 analog inputs

5 RS232/RS485 serial port

6 USB A port

7 4 DC outputs

8 Wide-range DC power

9 CAN port (via RJ45)

10 Ethernet LAN port

CONTROLLER

Ladder Logic Memory	1MB
Logic Scan Rate	0.013 mS/K
Removable Memory	microSD*
Digital I/O Max	2048 / 2048
Analog I/O Max	512 / 512
Primary Power Range	10-30VDC

DISPLAY SPECIFICATIONS

Characters/Pixels	480 x 272
Display Technology	4.3" TFT Resistive Color
Function Keys	4

CONNECTIVITY

Total Active Ports	1 RS-232, 1 RS-485
USB Ports (A and Mini-B)	Yes
Ethernet	1 x 10/100 MHz Support with Auto MDIX Support

PHYSICAL SPECIFICATIONS

Dimensions	mm: 89.76 tall x 119.18 wide x 35.8 deep in: 3.53 tall x 4.69 wide x 1.41 deep
Weight	270g / 9.52oz

OPERATING SPECS. & STANDARDS

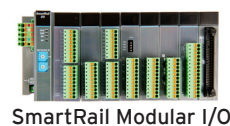|	
Operating Temperature	-10° to 60° C
Humidity (non-condensing)	5 to 95%
Ratings	UL Type 3R, 4, 4x, 12, 12k, 13

STREAMLINED ONBOARD I/O

Digital Inputs	4	12-24Vdc, HSC 500KHz MAX
Digital Ouputs†	4	0.5A @ 24Vdc, PWM 500KHz MAX
Analog Inputs	4 (12-bit)	0-20mA, 4-20mA, 0-10Vdc

FULLY SUPPORTED REMOTE I/O

Digital Inputs	2048	Analog Outputs	512
Digital Outputs	2048	Gen. Purpose Registers (words)	8192 (1024 retentive)
Analog Inputs	512	Gen. Purpose Internal Coils (bits)	4096 (2048 retentive)

ACCESSORIES

SmartRail Modular I/O

SmartBlock Specialty I/O

SmartStix Terminal Block I/O

HE-XCK Programming Cable Kit Includes

USB Cable
Ethernet Cable
RS-232 Cable
USB/RS-232 Adapter

*please refer to MAN1043-01-EN for size and format details
†please refer to MAN1042-01-EN for wiring/installation details