HORNER
AUTOMATION GROUP

Made in the USA
with global components

CE

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Class I, Division 2
Groups A, B, C, D
Type 4X

XLEe OCS

Massive Features Engineered within a Compact Package

Complete control, I/O, networking, & HMI capabilities empowered by a streamlined design

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

Manufacturing
▌ Production management and control
▌ Datalogging

COMPACT PHYSICAL DESIGN
The small, dense design of the XLEe enables you to fit more in your panel, saving space and resources. For an introductory XL Series product, the XLEe packs big solutions into an overall small package, utilizing a standard quarter DIN (92x92mm) cutout.

FLEXIBLE I/O CONFIGURATION
The XLEe is engineered with six unique built-in I/O configurations (five optional models and one without I/O), all of which include high speed counting capabilities – a truly advantageous feature for such a small package! If the built-in I/O of the XLEe isn't enough for your specific application, you can easily expand via CAN or Ethernet serial. With billions of external I/O combinations through several additional networking media, the wide scope of digital and analog I/O make automating your applications, and your organization, as simple as the push of a button.

EXTENSIVE CONTROL & HMI FEATURES
Many of the features found in more high-end controllers are available in our XLEe OCS controller. The XLEe utilizes a sunlight readable backlit screen (good for dark and sunlight), physical keys for buttons, and a strong graphical user interface which deeply integrates the HMI into the control system. Some of the strengths and benefits of the XLEe are:
▌ **Datalogging:** massive data storage for later analysis or recall
▌ **Scheduling:** easily enable period and time-based measurements/events; includes standard real time clock
▌ **Floating point and advanced math:** comprehensive functions easily performs complex mathematical processing
▌ **Multi language support:** easily integrate into diverse markets through one product: custom fonts for different languages, symbols, or sizes.

COMPREHENSIVE CONNECTIVITY
The level and scope of connectivity within the XLEe is unprecedented. Compatible with Ethernet (optional), CAN, USB, RS232, RS485, the XLEe makes communicating to other systems seamless and easy. The XLEe employs an array of physical connections, as well as a host of protocols enabling communication in a multitude of languages: allowing the unit to communicate with various equipment within different industrial manufactured components.

SPECIFICATIONS AND TECHNICAL INFORMATION

PHYSICAL CHARACTERISTICS

1 DIN rail mounting clip

2 Wide-range DC power

3 CAN port

4 Ethernet LAN Port (optional)

5 High capacity microSD slot

6 RS232/RS485 serial ports

7 USB mini-B port

8 Transflective LCD screen

9 Programmable soft keys

10 Numeric / Function keys

CONTROLLER

CPU	High Performance 32 Bit Arm with DSP and FPU Acceleration
Logic Scan Rate	0.7 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 LCD
Resolution / Color	128 x 64, Monochrome
Keypad	20 Key Domed Membrane

CONNECTIVITY

Serial Ports	2 Ports with RS-232 and RS-485
USB Ports (Mini-B)	1 Programming
Ethernet	10/100 Support with Auto MDIX Support (optional)
CAN	1 Port 125Kb – 1Mb

I/O MODELS

STANDARD	ETHERNET	I/O MODELS
HE-XE100	HE-XE1E0	No Built-in I/O
HE-XE102	HE-XE1E2	12 DC in, 6 Relay Out, 4 – 12-bit Analog In
HE-XE103	HE-XE1E3	12 DC in, 12 DC Out, 2 – 12-bit Analog In
HE-XE104	HE-XE1E4	24 DC in, 16 DC Out, 2 – 12-bit Analog In
HE-XE105	HE-XE1E5	12 DC in, 12 DC Out, 2 – 14/16-bit Analog In (mA/V/Tc/mV/RTD), 2 – 12-bit Analog Out
HE-XE106	HE-XE1E6	12 DC in, 12 DC Out, 6 – 14/17-bit Analog In (mA/V/Tc/mV/RTD), 4 – 12-bit Analog Out
Remote I/O		All Models Support SmartRail, SmartBlock, SmartStix, SmartMod, various 3rd party I/O devices

OPERATING SPECS. & STANDARDS

Primary Power Range	10-30VDC
Power	1-5W (depending on model/configuration)
Operating Temperature	-10˚ to 60˚ C
Humidity (non-condensing)	5 to 95% Non-Condensing
Environmental Ratings	IP65, UL Type 3R, 4, 4x, 12, 12k, 13

PHYSICAL SPECIFICATIONS

Dimensions	mm: 96.0 tall x 96.0 wide x 57.5 deep in: 3.78 tall x 3.78 wide x 2.26 deep