

# Point Expander

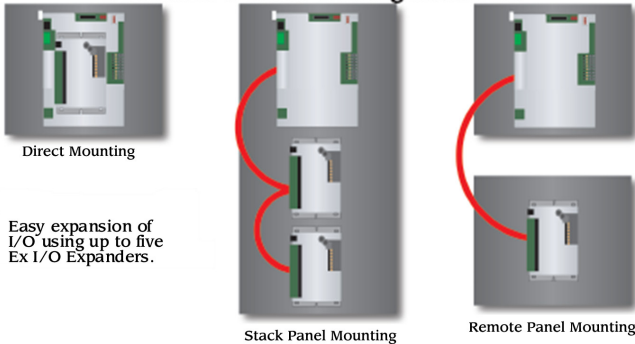
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The Ex series of I/O expanders are designed for the powerful I/O Pro controller, and for the most demanding control applications in the industry. The Ex I/O expanders can be remote mounted or directly mounted on the I/O Pro controllers.

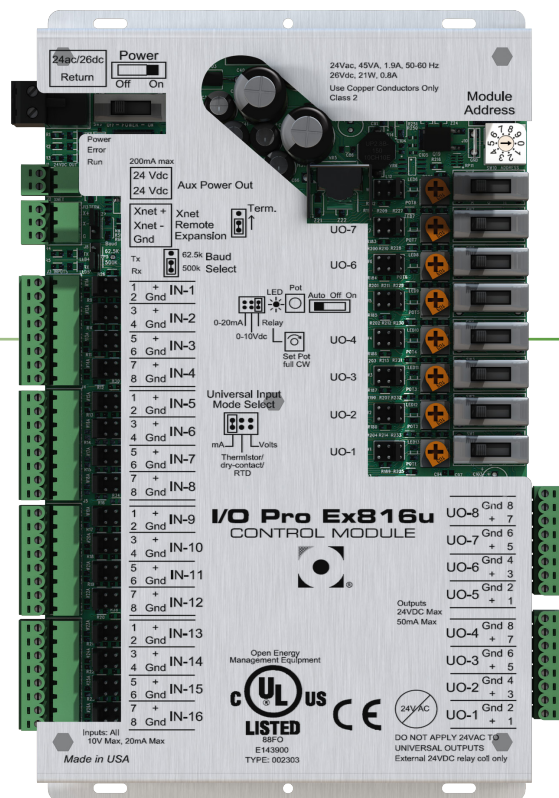
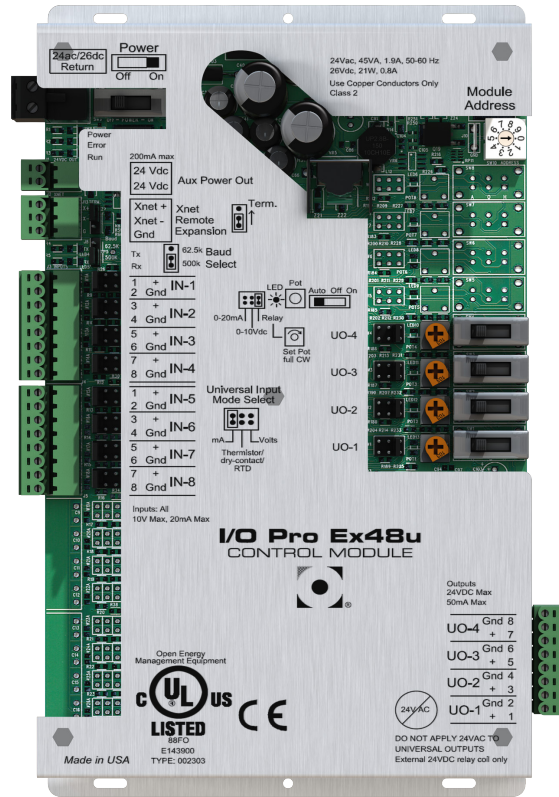
## Key Features and Benefits

- High resolution Universal Inputs and Outputs for accuracy.
- When used with the I/O Pro, allows for easy expansion of I/O using up to five Ex I/O expansion modules in a stack panel configuration or remote mounted up to 100 ft. away for scalable solutions.
- First Ex I/O expander that can be mounted directly on top of the I/O Pro controller, reducing control panel space.
- Tough construction delivers superior performance and reliability. Modules are constructed with a rugged aluminum cover which provides optimum electrical protection and noise immunity.
- Removable screw connectors for easy wiring, termination, and service.

## Flexible Panel Configurations



Product	Universal Outputs	Universal Inputs
Ex48u	4	8
Ex816u	8	16



# Ex I/O Expanders

# OpenCtrl®

# Specifications

Power	24VAC $\pm$ 10% (21.6VAC to 26.4VAC), 50 to 60Hz, 45VA, or 26 Vdc $\pm$ 10%, 21W
Physical screening available.	Rugged aluminum housing, removable screw terminals with custom silk
Operating Range	-20° to 140°F (-29° to 60°C); 10 to 90% relative humidity, non-condensing
Universal Inputs	Configurable universal inputs with 14 A/D resolution. Supported input types include: 0-5 Vdc, 0-10 Vdc, 0-20 mA, Thermistor (10k Ohm Type II), 1k Ohm RTD (Platinum, Nickel, or Balco), and Dry Contact. All inputs support pulse counting up to 40 cycles per second (12.5mSec minimum pulse duration).
Universal Outputs	Universal outputs that are jumper configurable as 0-10 Vdc, or 0-20 mA with 12-bit D/A or 24 Vdc@50mA relay drive. HOA (hand/off/auto) switches for all outputs, including potentiometer for manual adjustment of analog outputs.
Communication	Xnet I/O Expander bus for 500 Kbps or 62.5 Kbps communications between I/O Pro Controller and Ex I/O Expanders.
Expansion	Five Ex I/O expansion modules can be connected - one mounted directly on top of the controller, mounted locally in a stack configuration or remote mounted up to 100 ft. away.
Status Indication	Visual (LED) status of power, running, and errors. Xnet, TX and Xnet RX
Addressing	Rotary dip switches for intuitive network addressing of expander modules
Protection	Surge and transient protection circuitry for power and communications
Listed by	UL916 (Canadian Std C22.2 No. 205-M1983), CE, FCC part 15 - Subpart B - class A
Dimensions	4-3/4" (width) by 9" (height) by 1-1/2" (recommended panel depth) 121mm (width) by 229mm (height) by 38mm (recommended panel depth)
Mounting Hole Dimensions	2-3/4" from left (width) by 8-1/2" (height) 70 mm width by 216mm height
Weight	.83 lb. (.37 kg)



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