



**CONDOR III**

## ELPRO EL-115S-XX EXPANSION I/O

Industrial Input/output expansion cards for the ELPRO product line.

### DESCRIPTION

The ELPRO 115S series allows end users to readily accommodate changing I/O needs as project specifications evolve. The 115S series of products can be used with ELPRO transceiver-based I/O, gateway, Ethernet, and serial products to expand input and output count or act as a Modbus® slave I/O to connect other field devices.

Connected via RS-485 and communicating using ELPRO WIBNet™ or Modbus protocols, the 115S series is available in three versions with different numbers of I/O ports. Multiple 115S products may be daisy-chained to accommodate changing application needs.

### FEATURES

- Provides several I/O port variations for expanding applications
- Combine units (daisy chain) to accommodate additional I/O needs
- Serial modem expansion I/O for ELPRO transceiver I/O, gateway, and Ethernet products
- Modbus RTU slave I/O expansion capability
- Serial I/O multiplexer featuring ELPRO change-of-state WIBNet protocol.

### APPLICATIONS

- **Water and wastewater:** flows, levels, pumps
- **Renewables:** solar farms, wind turbines, hydro
- **Irrigation:** slew gate controls, levels
- **Oil and gas networks:** gas well production, lift pump
- **Environmental:** storm warning, smoke stacks, filters
- **Mining infrastructure:** conveyor, re-claimer, pumps

# SPECIFICATIONS



## ELPRO EL-115S-XX EXPANSION I/O

### Input and output

Discrete input <sup>a</sup> and Discrete output <sup>b,c,d</sup>	115S-11: up to 16 115S-12: up to 8 115S-13: up to 8
Analog inputs	115S-11: 0 115S-12: 4 floating/8 commoned (0–20 mA/0–10V) 115S-13: 0
Analog outputs	115S-11: 0 115S-12: 0 115S-13: 8 sink/source (0–20 mA/0–10V)
Pulsed input (3)	115S-11: 4 (first four DI only) (maximum rate 1 kHz) 115S-12: 0 115S-13: 0
Pulsed outputs (3,5)	115S-11: 8 115S-12: 8 115S-13: 8

### Serial Port

RS-232	9-pin DB-9 female connector DCE (Modbus only)
RS-485	2-pin terminal block, non-isolated <sup>f</sup> Modbus and ELPRO protocol
Data rate (bps)	1200, 2400, 9600, 14400, 19200, 38400, 57600, 76800, 115200, 230400 baud (configurable)
Serial settings	7/8 data bits, Stop/start/parity (configurable)

### Compliance

EMC	FCC Part 15; CE; EN 55022; EN 55024
Hazardous area	UL Class I Div 2, IECEx nA IIC, ATEX Zone 2
Safety	EN 60950

### Power supply

Nominal supply	10.8–30 Vdc, undervoltage/overvoltage protection
Average current draw	150 mA @ 12V, 90 mA @ 24V
Analog loop supply	Internal DC/DC converter: 24 Vdc 115S-12: max. 270 mA @ 24 Vdc 115S-13: max. 160 mA @ 24 Vdc

### LED Indications & Diagnostics

LED Indication	Power, OK, RX, TX, I/O status Refer to product manual for further information
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### General

Size (H x W x D)	150 mm x 180 mm x 35 mm (5.91" x 7.09" x 1.38" )
Housing	IP20 rated high-density thermoplastic
Terminal blocks	Removable, max. conductor 12 AWG
Mounting	DIN rail mounting
Temperature rating	-40 to +60°C (-40 to +140°F)
Humidity rating	0–90% RH non condensing
Weight	1.1 lb (0.5 kg)

<sup>a</sup> All digital inputs voltage free contacts

<sup>b</sup> All digital outputs FET (30 Vdc/0.2A)

<sup>c</sup> Pulse and digital I/O are same connection.

<sup>d</sup> Selectable digital inputs and outputs are combined channels; when a channel is used as an output, it is not available as an input.

<sup>e</sup> All pulse outputs to maximum 100 Hz

<sup>f</sup> Maximum distance 4000' (1200m)

**Note: Specifications subject to change**

### Order Codes

EL-115S-11 Serial I/O, ELPRO/Modbus RS-485, 16 DIO, 10.8–30 Vdc input

EL-115S-12 Serial I/O, ELPRO/Modbus RS-485, 8 DIO, 8 AI, 10.8–30 Vdc input

EL-115S-13 Serial I/O, ELPRO/Modbus RS-485, 8 AO, 10.8–30 Vdc input

## CONTACT

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## HOW TO ORDER

Simply send us an email at [sales@elprotech.com](mailto:sales@elprotech.com), contact your local distributor, or phone **+61 7 3352 8600**

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