

ELPRO Technologies

CONDOR II

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

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Input and output	
Discrete input[a] and Discrete output[b,c,d]	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 [f] 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 (configururable)

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
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)

[a] All digital inputs voltage free contacts
[b] All digital outputs FET (30 Vdc/0.2A)
[c] Pulse and digital I/O are same connection.
[d] Selectable digital inputs and outputs are combined channels; when a channel isused as an output, it is not available as an input.
[e] All pulse outputs to maximu m 100 Hz
[f] 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

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HOW TO ORDER

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