

ELPRO 115S - Industrial Serial I/O

Flexible serial I/O with multiple application modes:

Serial I/O multiplexer - transfer I/O via RS485 multidrop using WIBNet exception reporting protocol.

Expansion I/O for ELPRO 105U/905U wireless I/O units - up to 31 x 115S units can be connected to each wireless unit via RS485.

Modbus I/O - up to 99 x 115S units can be connected to each Modbus Master.

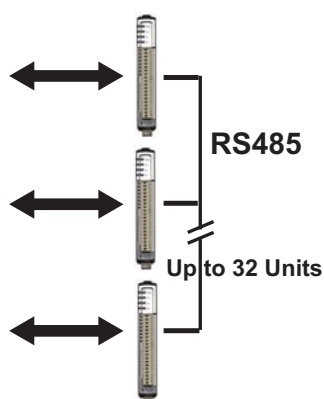
I/O interface for ELPRO 802.11 wireless Ethernet and Serial Server units - up to 99 115S units per wireless units.

Features:

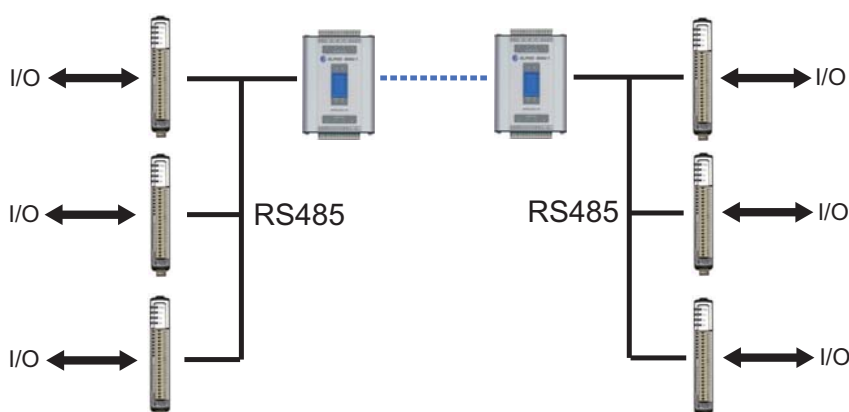
- Selectable communications protocol - Modbus (RTU and ASCII) or WIBNet (exception reporting, peer to peer with security encryption).
- Three I/O versions available:

115S model	115S-11	115S-12	115S-13
Digital input/output	16	8	8
Analog inputs	0	4/8	0
Analog outputs	0	0	8
Pulse input/output	4	0	0

- Each model has a minimum of 8 (115S-11 has 16) digital I/O channels - each channel can be used as a volt free contact input or FET output (30VDC, 0.2A maximum)
- The first four DIO channels on the 115S-11 unit can be used as pulse input or output channels with maximum pulse rate of 10KHz. Pulse inputs provide both totalized count and pulse rate as separate values.
- Configurable analog inputs - 0-20/4-20mA: 0-10V. Selectable as 8 single terminal inputs (commoned) or 4 dual terminal 'floating' inputs (115S-12).
- Analog outputs are either commoned with selectable 'supply' or 'sink' connections (115S-13).
- Each analog input has a high/low setpoint to determine a setpoint status.
- Field test and display I/O inputs and/or force outputs, monitor and confirm communications and configure units with user friendly configuration software.



Serial I/O transfer
(peer to peer, exception reporting)



Expansion I/O for ELPRO Wireless I/O
(WIBNet protocol)

115S - Industrial Serial I/O Units

SPECIFICATIONS

Specifications - 115S Serial I/O Units

General

Temperature -40 to +60 degC
(-40 to 140 degF).

Humidity 0-99% RH

EMC FCC Part 15, AS3548, 89/336/EEC

CSA Class 1 Div 2 hazardous areas (USA/Canada)

Housing – high density thermo-plastic

5.91" x 7.09" x 1.38" (150 X 180 x 35mm) with

DIN rail mounting.

Removable terminals up to 12 gauge (2.5 sqmm) wires.

LED indication for power supply, processor OK, serial TX and RX,digital I/O.

Analog Outputs:

Selectable as current/voltage source or current sink to common, max loop voltage 27V, max loop resistance 1000 ohms, 0 – 20mA/0 – 10V, 12 bit, accuracy 0.1%
115S - 13 - 8 channels, 160mA maximum total current

Pulse Inputs:

Specifications as per digital inputs.
Max pulse rate 1kHz, pulse width min 0.5ms
115S - 11 - 4 inputs (DIO1-4)

Pulse Outputs:

Specifications as per digital outputs.
Max pulse rate 15.625Hz, pulse width min 32ms
115S -11,-12,-13,-14 8 outputs (DIO1-8)

Inputs and OutputsDigital Inputs:

Suitable for voltage free contacts or NPN transistor, contact wetting current 5mA, inputs are surge protected:
115S -11 - up to 16 selectable I/O
115S -12 & -13 up to 8 selectable I/O

Digital Outputs:

FET outputs, 30VDC 200mA
115S -11 up to 16 selectable I/O
115S -12 ,-13, -14 up to 8 selectable I/O

Analog Inputs:

"Floating" differential inputs, common mode voltage 27V, 24VDC (20VDC for 115S-13) for powering external loops provided, digital filtering 1 sec, 0-20mA/0-10V resolution 12 bit, accuracy 0.1%

115S -12 - 8 input channels, selectable as 4 dual-terminal floating inputs or 8 single-terminal commoned inputs.

Power Supply

10.8 - 30 VDC, over-voltage and reverse power protected .
Internal monitoring of supply voltage.
Values may be transmitted to remote modules for monitoring.

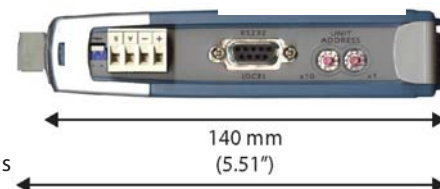
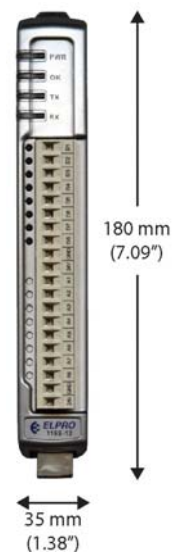
Internal DC/DC converter provides 24VDC (250mA for 115S-12: 160mA for 115S-13) for analog loop supply.

Serial Port

RS485 serial port configurable up to 115.2Kb/s, 7/8 data bits, n/e/o parity, 1 / 2 stopbits.
RS232 configuration port 9pin DB9 female connector, 9.6Kb/s, 8/n/1
RS485 max cable distance 2000 m terminal connections.

Weight

0.359 grams
Specifications subject to change without notice



ELPRO
Technologies

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