Line-EDS-PS

Line-EDS-PS, Data collection systems. Integrates WEBSITE.

Code: M61095.

> Protocol: Modbus (Circutor + generic) | XML
> Generic Modbus: 1
> Integrated Software: PowerStudio
> Communications: Ethernet | Wi-Fi | RS-485 | Bus-Line
> Transistor output: 2
> Mounting: DIN rail

Description

The **Line-EDS-PS** is a gateway with PowerStudio embedded. This module, by itself, lets you set up a supervisory and telemanagement (SCADA) system. By using the expansion modules of the line range or any Modbus (TCP or RTU) device on the market, it is able to integrate any process signal that is to be measured.

By programming the device with PowerStudio, you can incorporate any actuating logic for analogue or digital outputs, allowing you to create an automated management system that performs actions based on the input signals.

The device can be connected via cabled (Ethernet) or wireless (Wi-Fi) networks. The data displays, screens and reports can be accessed via the PowerStudio client or via a web browser thanks to the integrated web server

The **Line-EDS-PS** device has three models with different capabilities:

	Line-EDS-PS	Line-EDS-PSS	Line-EDS-PSS-PRO
Embedded SCADA displays	•		
Embedded reports		•	•
Load switching	•	•	•
Programming of variables	•	•	•
Modbus/Modbus-TCP and XML bidirectional gateway	•	•	•

The **PSS** and **PSS PRO** variants offer the ability to program screens and reports, which allows you to have a SCADA system with a single device, without the need for PCs, servers or licences.

Application

The ease of programming in the PowerStudio environment allows a multitude of applications to be quickly integrated. Some possibilities are listed below by way of example:

○ Electricity consumption monitoring system with active alarm management by e-mail (cos φ, maximum power, harmonics, etc.), sectorization of consumption, load management, invoice simulation, allocation of production costs, etc.
○ Efficient management of systems through hourly schedules (HVAC, lighting, etc.)
○ Efficient management of HVAC systems by regulating the supply setpoints.
○ Control of pumping systems.
○ Monitoring of industrial processes.
○ Management of multipoint consumption (electricity, water, gas, etc.)
○ Analysis of equipment performance (compressed air, HVAC, etc.)

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Circutor

Line-EDS-PS

Efficiency Data Server

Code: M61095.

Specifications

AC power supply

Installation category	CAT III 300 V
Consumption	11 ... 28 VA
Frequency	50 ... 60 Hz
Nominal voltage	120 ... 264 V ~

DC power supply

Installation category	CAT III 300 V
Consumption	2.5 ... 7 W
Nominal voltage	190 ... 300 Vdc

Mechanical characteristics

Size (mm) width x height x depth	52.5 x 118 x 70 (mm)
Screw type	Flat, M2.5
Envelope	Self-extinguishing V0 plastic
Torque setting	≤ 0.4 Nm
Cable gauge at power supply terminals	2.5 mm^2
Fastening	DIN rail
Weight (kg)	0,187

Environmental characteristics

Protection class	IP30, Front: IP40
Relative humidity (without condensation)	5 ... 95%
Storage temperature	-20 ... +80 °C
Operating temperature	-10 ... +50 °C

Standards

Certifications	UL 61010-1
Electrical safety, Maximum height (m)	2000
Standards	UNE-EN 61010-1, UNE-EN 61000-6-2, UNE-EN 61000-6-4, UL 61010-1

Communications

Effective radiated power (ERP)	11,25 dBm
IP address for local communications	100.0.0.1
Connection mode to Network	DHCP ON/OFF (ON by default)
Effective isotropic radiated power (EIRP)	13,4 dBm
Band	2,4 GHZ.
Fieldbus	RS-485

Circutor

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Data collection systems. Integrates WEBSITE.

Line-EDS-PS

Efficiency Data Server

Code: M61095.

Data bits	8
Stop bits (ModBus)	1
Connector	RJ-45
Parity	non (Modbus)
Protocol	Modbus RTU / Web server - XML
Speed	Ethernet 10 /100 BT (Mbit/s), Modbus: 9600-19200-38400-57600-76800-115200
Standards	IEEE 802.11 ac / a / b / g / n
Maximum output power	8,9 dBm
Connection mechanism	Ethernet 10BaseT / 100BaseTX autodetectable Wi-Fi

User interface

LED	5 LED

Digital transistor outputs

Pulse width	1 ms
Quantity	2
Type	NPN
Maximum frequency	500 Hz
Maximum current	120 mA
Maximum voltage	48Vcc

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Line-EDS-PS

Efficiency Data Server

Code: M61095.

Line-EDS-PS

Data collection systems. Integrates WEBSITE.

CODE	TYPE
M61095.	Line-EDS-PS
M61085.	Line-EDS-PSS
M61065.	Line-EDS-PSS PRO

Bus-Line: RS-485 communications system, with lateral side connector between modules

Line-EDS-PS

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Dimensions