



## Line-EDS-iMonitor

Line-EDS-iMonitor, Data collection systems. Integrates WEBSITE. Front-end iMonitor

Code: D70021.

- > Protocol: Modbus (Circuitor + generic) | XML
- > Generic Modbus: 1
- > Integrated Software: PowerStudio Scada PRO + iMonitor
- > 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:

	PS	PS PRO	PS PRO
PowerStudio Scada PRO	Yes	Yes	Yes
PowerStudio iMonitor	Yes	Yes	Yes
PowerStudio Reports	Yes	Yes	Yes
PowerStudio Screens	Yes	Yes	Yes
PowerStudio Data	Yes	Yes	Yes
PowerStudio Alarms	Yes	Yes	Yes
PowerStudio Events	Yes	Yes	Yes
PowerStudio Trends	Yes	Yes	Yes
PowerStudio History	Yes	Yes	Yes
PowerStudio Settings	Yes	Yes	Yes
PowerStudio Maintenance	Yes	Yes	Yes
PowerStudio Security	Yes	Yes	Yes
PowerStudio Backup	Yes	Yes	Yes
PowerStudio Restore	Yes	Yes	Yes
PowerStudio Upgrade	Yes	Yes	Yes
PowerStudio License	Yes	Yes	Yes
PowerStudio Support	Yes	Yes	Yes
PowerStudio Training	Yes	Yes	Yes
PowerStudio Documentation	Yes	Yes	Yes
PowerStudio Manuals	Yes	Yes	Yes
PowerStudio Videos	Yes	Yes	Yes
PowerStudio Webinars	Yes	Yes	Yes
PowerStudio Conferences	Yes	Yes	Yes
PowerStudio Seminars	Yes	Yes	Yes
PowerStudio Workshops	Yes	Yes	Yes
PowerStudio Courses	Yes	Yes	Yes
PowerStudio Certifications	Yes	Yes	Yes
PowerStudio Exams	Yes	Yes	Yes
PowerStudio Degrees	Yes	Yes	Yes
PowerStudio Diplomas	Yes	Yes	Yes
PowerStudio Licenses	Yes	Yes	Yes
PowerStudio Registrations	Yes	Yes	Yes
PowerStudio Memberships	Yes	Yes	Yes
PowerStudio Subscriptions	Yes	Yes	Yes
PowerStudio Partnerships	Yes	Yes	Yes
PowerStudio Alliances	Yes	Yes	Yes
PowerStudio Collaborations	Yes	Yes	Yes
PowerStudio Joint Ventures	Yes	Yes	Yes
PowerStudio Acquisitions	Yes	Yes	Yes
PowerStudio Mergers	Yes	Yes	Yes
PowerStudio Takeovers	Yes	Yes	Yes
PowerStudio Buyouts	Yes	Yes	Yes
PowerStudio Leases	Yes	Yes	Yes
PowerStudio Loans	Yes	Yes	Yes
PowerStudio Investments	Yes	Yes	Yes
PowerStudio Donations	Yes	Yes	Yes
PowerStudio Grants	Yes	Yes	Yes
PowerStudio Scholarships	Yes	Yes	Yes
PowerStudio Stipends	Yes	Yes	Yes
PowerStudio Allowances	Yes	Yes	Yes
PowerStudio Reimbursements	Yes	Yes	Yes
PowerStudio Refunds	Yes	Yes	Yes
PowerStudio Returns	Yes	Yes	Yes
PowerStudio Exchanges	Yes	Yes	Yes
PowerStudio Swaps	Yes	Yes	Yes
PowerStudio Derivatives	Yes	Yes	Yes
PowerStudio Options	Yes	Yes	Yes
PowerStudio Futures	Yes	Yes	Yes
PowerStudio Bonds	Yes	Yes	Yes
PowerStudio Stocks	Yes	Yes	Yes
PowerStudio Commodities	Yes	Yes	Yes
PowerStudio Currencies	Yes	Yes	Yes
PowerStudio Metals	Yes	Yes	Yes
PowerStudio Energy	Yes	Yes	Yes
PowerStudio Agriculture	Yes	Yes	Yes
PowerStudio Forestry	Yes	Yes	Yes
PowerStudio Mining	Yes	Yes	Yes
PowerStudio Oil	Yes	Yes	Yes
PowerStudio Gas	Yes	Yes	Yes
PowerStudio Coal	Yes	Yes	Yes
PowerStudio Uranium	Yes	Yes	Yes
PowerStudio Plutonium	Yes	Yes	Yes
PowerStudio Radium	Yes	Yes	Yes
PowerStudio Thorium	Yes	Yes	Yes
PowerStudio Actinium	Yes	Yes	Yes
PowerStudio Francium	Yes	Yes	Yes
PowerStudio Protactinium	Yes	Yes	Yes
PowerStudio Uranium	Yes	Yes	Yes
PowerStudio Thorium	Yes	Yes	Yes
PowerStudio Radium	Yes	Yes	Yes
PowerStudio Polonium	Yes	Yes	Yes
PowerStudio Astatine	Yes	Yes	Yes
PowerStudio Tellurium	Yes	Yes	Yes
PowerStudio Selenium	Yes	Yes	Yes
PowerStudio Bromine	Yes	Yes	Yes
PowerStudio Krypton	Yes	Yes	Yes
PowerStudio Xenon	Yes	Yes	Yes
PowerStudio Barium	Yes	Yes	Yes
PowerStudio Strontium	Yes	Yes	Yes
PowerStudio Calcium	Yes	Yes	Yes
PowerStudio Magnesium	Yes	Yes	Yes
PowerStudio Zinc	Yes	Yes	Yes
PowerStudio Cadmium	Yes	Yes	Yes
PowerStudio Mercury	Yes	Yes	Yes
PowerStudio Lead	Yes	Yes	Yes
PowerStudio Tin	Yes	Yes	Yes
PowerStudio Antimony	Yes	Yes	Yes
PowerStudio Arsenic	Yes	Yes	Yes
PowerStudio Selenium	Yes	Yes	Yes
PowerStudio Tellurium	Yes	Yes	Yes
PowerStudio Bismuth	Yes	Yes	Yes
PowerStudio Polonium	Yes	Yes	Yes
PowerStudio Astatine	Yes	Yes	Yes
PowerStudio Francium	Yes	Yes	Yes
PowerStudio Actinium	Yes	Yes	Yes
PowerStudio Thorium	Yes	Yes	Yes
PowerStudio Uranium	Yes	Yes	Yes
PowerStudio Plutonium	Yes	Yes	Yes
PowerStudio Americium	Yes	Yes	Yes
PowerStudio Curium	Yes	Yes	Yes
PowerStudio Berkelium	Yes	Yes	Yes
PowerStudio Californium	Yes	Yes	Yes
PowerStudio Einsteinium	Yes	Yes	Yes
PowerStudio Fermium	Yes	Yes	Yes
PowerStudio Mendelevium	Yes	Yes	Yes
PowerStudio Nobelium	Yes	Yes	Yes
PowerStudio Lawrencium	Yes	Yes	Yes
PowerStudio Rutherfordium	Yes	Yes	Yes
PowerStudio Dubnium	Yes	Yes	Yes
PowerStudio Seaborgium	Yes	Yes	Yes
PowerStudio Bohrium	Yes	Yes	Yes
PowerStudio Hassium	Yes	Yes	Yes
PowerStudio Meitnerium	Yes	Yes	Yes
PowerStudio Darmstadtium	Yes	Yes	Yes
PowerStudio Roentgenium	Yes	Yes	Yes
PowerStudio Copernicium	Yes	Yes	Yes
PowerStudio Tennessine	Yes	Yes	Yes
PowerStudio Oganesson	Yes	Yes	Yes

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  $\phi$ , 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.)



## Line-EDS-iMonitor

Efficiency Data Server

Code: D70021.

### 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)
Envelope	Self-extinguishing V0 plastic
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
Working 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

#### Communication Network

Connection mechanism	RJ-45
Connection mode	DHCP ON/OFF (ON by default)
Protocol	Modbus RTU / Web server - XML
Technology / Type	Ethernet 10 /100 BT

#### User interface

LED	5 LED
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#### Digital transistor outputs

Pulse width	1 ms
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## Line-EDS-iMonitor

Efficiency Data Server

Code: D70021.

Quantity	2
Type	Optocoupler (Open-collector)
Maximum frequency	500 Hz
Maximum current	120 mA
Maximum voltage	48Vcc

### Serial communication

Protocol	Modbus RTU
Technology / Type	RS-485

### Wireless communication

Band	IEEE 802.11 b / g / n
Technology / Type	Wi-Fi

### Line-EDS-iMonitor

Data collection systems. Integrates WEBSITE.

CODE	TYPE	Integrated Software	Transistor output	Generic Modbus	Communications	Protocol
D70021.	Line-EDS-iMonitor	PowerStudio Scada PRO + Front-end iMonitor	2	1	Ethernet   Wi-Fi   RS-485   Bus-Line	Modbus (Circutor + generic)   XML

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



## Line-EDS-iMonitor

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Code: D70021.

### Dimensions



### Connections

