Line-EDS-PS

Efficiency Data Server

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-Power Studio device has three models with different capabilities:

	Line-EDS-PS	Line-EDS-PSScada	Line-EDS-PSScada PRO
Customized SCADA displays	-	2	5
Customized reports	-	2	5
Event scheduling	10	20	40
Programming of calculated variables	10	20	40
CIRCUTOR Modbus RTU and TCP slave devices or generic	5	10	20

The Line-EDS-PSScada and Line-EDS-PSScada 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.

Applications

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.)

Line-EDS-PS   Efficiency Data Server

Technical specifications

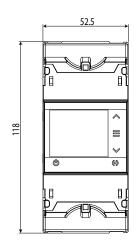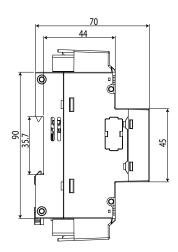|		
AC power supply	Nominal voltage	80... 264 Vac
	Frequency	50... 60 Hz
	Consumption	2.5... 7 VA
	Installation category	Cat III 300V
DC Power supply	Nominal voltage	100 ...300 Vdc
	Consumption	1.5... 2.5 W
	Installation category	Cat III 300V
Digital outputs	Quantity	2
	Type	Optocoupled (Open Collector)
	Maximum voltage	48 Vdc
	Maximum current	120 mA
	Maximum frequency	500 Hz
	Pulse width	1 ms
RS-485 Communications	Fieldbus	RS-485
	Communications protocol	Modbus RTU
	Speed	9600 - 19200 - 34800 - 57600 - 115200 bps
	Data bits	8
	Stop bits	1
	Parity	none
Ethernet communications	Type	Ethernet 10BaseT - 100BaseTX
	Connector	RJ-45
	Protocol	Web server - XML
Wi-Fi communications	Band	2.4 GHz
	Standards	IEEE 802.11 ac/ a /b /g /n
	Output power	8.9 dBm
	Effective radiated power (ERP)	11.25 dBm
	Effective isotropic radiated power (EIRP)	13.4 dBm
Environmental characteristics	Operating temperature	–10... +50 ºC
	Storage temperature	–20... +80 ºC
	Relative humidity (without condensation)	5... 95%
	Maximum height	2000 m
	Protection degree	IP 30
Mechanical characteristics	Dimensions	52.5 x 118 x 70 mm
	Weight	180 g
	Enclosure	V0 self-extinguishing
	Fixing	DIN rail
Standards	EN 61010-1, EN 61326-2, EN 61000-6-2, EN 61000-6-4, UL 61010-1	

Circutor

Line-EDS-PS   Efficiency Data Server

References

Code	Type	Integrated software	Communication
M61095.	Line-EDS-PS	PowerStudio	Ethernet / Wi-Fi / RS-485 / Bus-Line
M61085.	Line-EDS-PSScada	PowerStudio SCADA	
M61065.	Line-EDS-PSScada PRO	PowerStudio SCADA DELUXE	

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

Dimensions

Assembly