

# EDS

## Efficiency Data Server

### Description

**EDS** is an energy manager equipped with PowerStudio Embedded and a built-in web and XML server, which enables the user to query any electrical variable by connecting the metering equipment to its RS-485 bus without having to install any *software*. Thanks to the RS-485 expansion bus, the user can view any variable from the units connected to the bus and can even display information in real time, in table or graphic format (*data logger*). There are 8 voltage-free digital inputs and 6 programmable relay digital outputs.

Its most salient features include:

- Parameterisation and management of automatic events
- Alarm recording system and system event management
- E-mail alarms.
- RS-485 port for connecting up to 5 **CIRCUTOR** devices.
- Ethernet connection
- Centralisation of alarms through detection of logical states or centralization of consumption by impulses.

### Applications

- **Domestic application:** **EDS** can be used to control the partial consumption of each load in a domestic installation.
  - Control of domestic consumption.
  - Compare your consumption with that of the energy marketer.
  - Rationalisation of home consumption.
- **SME/Industrial application:** **EDS** facilitates the control of partial consumptions of the different single-phase and three-phase loads during productive and non-productive periods.
  - Control the consumption of your installation 24/365 and locate residual consumption during non-production periods.
  - Check the power level contracted in the installation.
  - Supervise the level of harmonics and the reactive load of your installation.
  - Alarms for consumption or incidents in your electrical network.
  - No need for a computer
  - Possibility of connection when specified: the system acts automatically.
  - Provides information about your bill before you receive it.
- **Multi-point application:** in the case of load distribution (or remote installations) **EDS** can control the individual consumption of each of the installations and centralise them into a single one.
  - Efficient, easy and simple control of the consumption of your remote sites.
  - Energy reports per consumption zone or site
  - Remote alarms for excess consumption or incidents in the electrical network.
  - Possibility of comparing consumption for each site.



### Features

<b>Power Supply</b>	
Single-phase	85 ... 264 V <sub>ac</sub> / 120 ... 374 V <sub>dc</sub>
Frequency	47 ... 63 Hz
Max. consumption	5 ... 8 VA
<b>Output features</b>	
Type	Relay
Maximum operating power	740 VA
Maximum operating voltage	250 V <sub>ac</sub>
Maximum current commutation	5 A with resistive load
Electrical working life (250 V <sub>ac</sub> / 5 A)	3 x 10 <sup>4</sup> maneuvers
Mechanical working life	2 x 10 <sup>7</sup> maneuvers
<b>Input features</b>	
Type	Free-voltage opto isolated
Max. current activation	50 mA
Isolation	1500 V
<b>Enviroment conditions</b>	
Working temperature	-10 °C ... 60 °C
Protection degree	IP 20
Humidity	5% ... 95% (without condensation)
Max. Altitude	2000 m
<b>Display</b>	LCD with Backlight
<b>Mechanical features</b>	
Material caja	Autoextingible UL94 V0 plastic
Dimensiones (mm)	105 x 70 x 90 mm (6 modules)
Peso (kg)	0,280
<b>Interfaz de red</b>	
Type	Ethernet 10BaseTX
Conector	RJ-45
Network protocol	HTTP / Modbus/RTU
Bus	RS-485
<b>Interface Serie</b>	
Type	RS-485 three wires (A/B/S)
Transmition speed	4800, 9600, 19.200, 34.800, 57.600, 115.200 bps
Data bit	8
Parity	Without parity, pair, odd
Stop Bit	1 / 2
<b>Safety</b>	
Category	Category III 300 / 520 V <sub>ac</sub> según <b>EN 61010</b>
Insulation type	Category III - 300 / 520 V AC <b>EN 61010</b> Class II double insulation against electric shock
<b>Standards</b>	
IEC 60664, VDE 0110, UL 94, EN 61010-1, EN 55011, EN 61000-4-3, EN 61000-4-11, EN 61000-6-4, EN61000-6-2, EN 61000-6-1, EN 61000-6-3, EN 61000-4-5	

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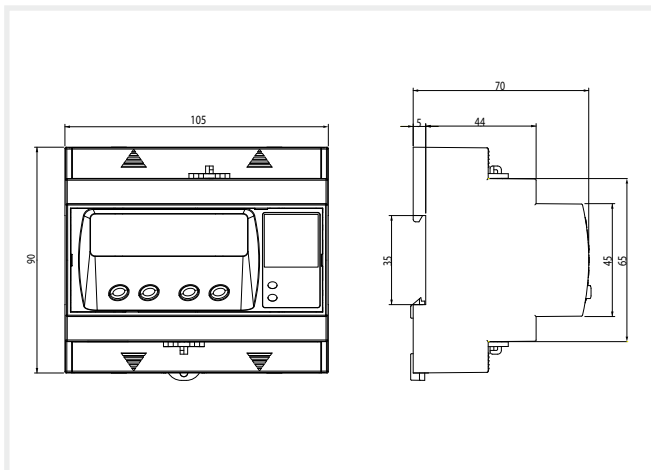
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#### References

Description	Communications Protocol MODBUS / RTU	Ethernet	Internet	No. of digital inputs	No. of digital outputs	Type	Code
Remote energy manager with <b>PowerStudio Embedded</b> technology	RS-485	Yes	Built-in Web server and XML	8 (voltage-free)	6 per relay	EDS	M61010
Remote energy manager with <b>PowerStudio Embedded</b> technology with generic modbus <i>driver</i> to communicate with other non-CIRCUTOR devices	RS-485	Yes	Built-in Web server and XML	8 (voltage-free)	6 per relay	EDS Delux	M61020

#### Dimensions



#### Connections

