# EDS

EDS, Efficiency Data Server

Code: M61010. CONSULTAR DISPONIBILIDAD

> Servidor
> Protocol: Modbus Circutor
> Communications: Ethernet
> N° relays: 6
> Digital inputs: 8

## 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 pulses.

## Application

**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 consumptionsof 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.

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- Possibility of comparing consumption for each site.

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## Specifications

### AC power supply

| | |
|---|---|
| Consumption | 5...8VA |
| Frequency | 47...63 Hz |
| Nominal voltage | 85...264 Vca/120...300 Vcc |

### Mechanical characteristics

| | |
|---|---|
| Size (mm) width x height x depth | 90 x 105 x 105 (mm) |
| Envelope | Plastic UL 94 - V0 self-extinguishing |
| Weight (kg) | 0,29 |

### Environmental characteristics

| | |
|---|---|
| Protection class | IP 20 |
| Relative humidity (without condensation) | 5...95% |
| Working temperature | -10 ... +60 °C |

### Standards

| | |
|---|---|
| Certifications | CE, UL |
| Electrical safety, Maximum height (m) | 2000 |
| Electrical safety, Installation category | CAT III , IEC 61010 |
| Standards | UL 94, UNE-UNE-EN 61010-1, UNE-EN55011, UNE-EN 6100-4-2, UNE-EN 61000-4-3, UNE-EN 61000-4-11, UNE-EN 61000-6-4, UNE-EN 61000-6-2, UNE-EN61000-6-3, UNE-EN 61000-4-5 |

### Communication Network

| | |
|---|---|
| Protocol | HTTP / Modbus RTU |
| Technology / Type | Ethernet 10 /100 BT |

### Electrical safety

| | |
|---|---|
| Insulation | Double-insulated electric shock protection class II (IEC 61010-1) |

### User interface

| | |
|---|---|
| Display format | Alphanumeric 2 Lines |
| Resolution of the display | 20 characters |
| Display type | Backlit LCD |

### Digital inputs

| | |
|---|---|
| Input/output insulation | 1,5 kV |
| Type | Free of optoisolated voltage |
| Maximum short-circuit current | 50 mA |

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## Digital relay outputs

| | |
|---|---|
| Quantity | 6 |
| Maximum current | 5A |
| Maximum open contact voltage | 250 V ~ |
| Electrical life | 3 x $10^4$ (250 Vca / 5 A) |
| Mechanical life | 2 x $10^7$ |
| Maximum switching capacity | 750 VA |

Energy device with embedded PowerStudio technology: Built-in web and XML server, RS-485 Modbus expansion bus, Ethernet 10/100 Base/TX connection, 6 modules mounted on a DIN rail

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## Dimensions