

CEM-M-ETH

CEM-M-ETH, Communication module

Code: Q23403. **CONSULTAR DISPONIBILIDAD**

> Protocol: Modbus TCP/IP

> Communications: Ethernet

Description

CEM-M are interchangeable communication modules for the **CEM-C** energy meters assembled on DIN rails. These modules can increase the performance of the energy meters, so that any meter can be adapted to the communication systems in place in the installation.

Energy management systems require the use of meters that comply with international measurement regulations, but which can also be integrated with the standard communication protocols used in buildings. The **CEM-M** range allows the user to install the **CEM-C** meter that is best suited to the installation (single-phase, direct three-phase or indirect three-phase), subsequently adding the most adequate **CEM-M** module, in accordance with the communications protocol.

The following can be performed with the modular system, among other actions:

- Selecting the energy meter and subsequently adding the communication systems required by the BMS.
- Reducing the stock of references, since the meter should not be replaced, regardless of whether the client chooses to read the meter remotely or not and to do so with a specific protocol.

Application

- Redundant meter to verify energy allocated by the energy distributor.
- Reporting of energy consumption to a remote system (PLC/BMS).
- Cost control to obtain a consumption/unit ratio in industrial processes.
- Phase and three-phase electrical parameter (V, A, kW, kWh, PF, etc.) display.

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Communication modules for CEM meters, assembly on DIN rail

Code: Q23403.

Specifications

AC power supply

Installation category	CAT III 300 V
Consumption	2.4 ... 2.7 VA
Frequency	50 / 60 Hz
Nominal voltage	230 V ~ ±20 %

Mechanical characteristics

Size (mm) width x height x depth	35 x 90 x 61 (mm)
Weight (kg)	0,1

Environmental characteristics

Protection class	IP 51 (installed) IP 40 (terminal area)
Relative humidity (without condensation)	5 ... 95 %
Storage temperature	-35 ... +80 °C
Working temperature	-25 ... +70 °C

Electrical characteristics

Insulation voltage, circuit	4 kV RMS 50 Hz durante 1 min

Communication Network

Protocol	Modbus TCP
Technology / Interface	Ethernet

Standards

Electrical safety, Maximum height (m)	2000
Standards	IEC 61010-1, IEC 61000-6-2, IEC 61000-6-3

User interface

LED	3 LED: POWER-LINK-LINK/ACT

Serial communication

Protocol	Modbus RTU

Wireless communication

Technology / Type	Optical IR port (additional external receiver required)

Compatible with CEM-C10 and CEM-C21/C31 meters without built-in RS-485 communications

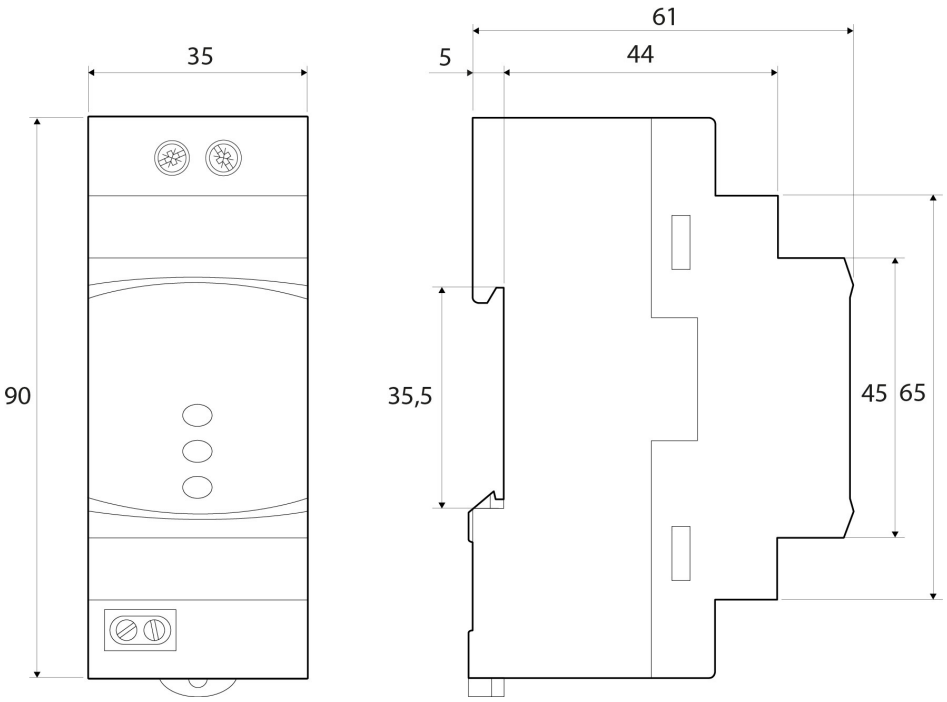


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Dimensions



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