

EM415-Mod

Single Phase Energy Meter-100A-Modbus

KEY FEATURES

- MID approved with appendix "B" and "D" certification
- Single phase metering 4 din modules
- Direct metering up to 100A
- LCD display, 6 integer 1 decimal
- Clear green backlight display
- SO pulse output
- Smart Communication port
- Modbus RTU with 16 bit CRC
- Accuracy class B according to EN50470-3
- Accuracy class 1 according to IEC62053-21
- Memory back-up (Eeprom)

Pulse Output Function

Smart meter is equipped with a pulse output which is fully separated from the outside circuit.

- Pulse width (ms) : 80
- Pulse Constant (imp/kWh) : 1600
- LED Constant (imp/kWh) : 1600

Reading the meter

The Smart energy meter is equipped with 6 + 1 LCD display, which is used for recording energy consumption and cannot be reset to zero. The number system is based on units of 10 and each unit is measured in kWh.

Programming Function

Address, Baud rate and password can all be set on the meter via the front panel.

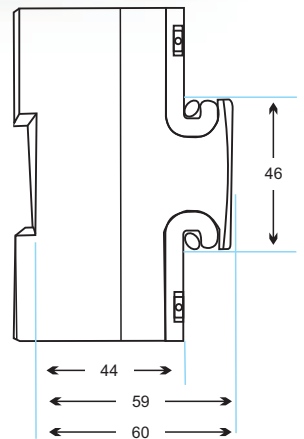
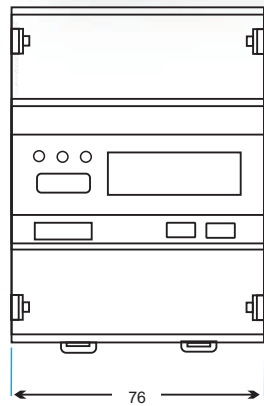
Dimensions

(WxHxD) 76mm x 104.5mm x 60mm

Characteristics

Type of measurement : Voltage, Ampe, kW, PF, Hz, +kWh, -kWh, ΣkWh

- Rated Current : 10A
- Rated Voltage : 230V
- Frequency : 50Hz or 60Hz
- Maximum current: 100A
- Maximum Value Measured : 999999.9kWh
- Power Consumption: <2W 10VA
- Current terminals flexible 1 x mm² : 0-16mm²
- RS485 cable: AWG18
- Another terminal flexible 1 x mm² : 0-2.5mm²



Communication Function

The meter is Modbus COM



Modbus Serial Comms

- Bus type : RS485 2wire
- Protocol : Modbus RTU with 16 bit CRC
- Baud Rate (bps) : :1200 (default), 2400, 4800, 9600
- Bus loading (pcs) : < 64

Environmental

- Operational temperature : -25°C - + 55°C
- Storage temperature : -40°C - + 70°C