



EM415-Mod

single phase energy meter-100A-Modbus

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

S0 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)

Characteristics

| Type of measurement | Voltage, Ampe, kW, PF, Hz, +kWh, -kWh, ΣkWh |
|--|---|
| Rated current | 10A |
| Rated voltage | 230V |
| Frequency (Hz) | 50 or 60Hz |
| Maximum current | 100A |
| Maximum value measured | 999999.9kWh |
| Power consumption | <2W 10VA |
| Current terminals flexible 1×mm ² | 0-16mm ² |
| RS485 cable | AWG18 |
| another terminal flexible 1×mm ² | 0-2.5mm ² |

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 |

General data

| | |
|-------------------------|------|
| Pulse width(ms) | 80 |
| Pulse constant(imp/kWh) | 1600 |
| LED constant(imp/kWh) | 1600 |

Dimension

| | |
|-------------|-------|
| Width (mm) | 76 |
| Height (mm) | 104.5 |
| Depth (mm) | 60 |

Environmental

| | |
|-----------------------|---------------|
| Operating temperature | -25°C - +55°C |
| Storage temperature | -40°C - +70°C |