



EM418

single phase energy meter-100A-Modbus-Multi-rates

MID approved with appendix "B" and "D" certification

Single phase metering 4 din modules

Direct metering up to 100A

LCD display, 6 integer 2 decimal, meter display when power fails

Clear green backlight display

50 pulse output

Modbus RTU with 16 bit CRC

1,2,3 and 4 tariff meter option

Accuracy class B according to EN50470-3

Accuracy class 1 according to IEC62053-21

Memory back-up (EEPROM)

Characteristics

| Type of measurement | Voltage, Ampere, kW, kvar, PF, Hz, kWh, -kWh, ΣkWh, -kvarh, +kvarh |
|--|--|
| Rated current | 10A |
| Rated voltage | 230V |
| Frequency (Hz) | 50 or 60Hz |
| Maximum current | 100A |
| Maximum value measured | 999999.99kWh |
| 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 |

Time of Use

| | |
|------------------------------------|-----------|
| Rates | 0~4 |
| Separate Import & Export Registers | 585 |
| Programmable special days | 64 |
| Time-keeping accuracy | <0.5S/day |
| Power off clock running time | >5 years |

Modbus serial comms

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

Dimension

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

Environmental

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