



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