



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