



EM427

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

- CE approved
- Single phase three wire metering 4 din modules
- Direct metering up to 100A
- LCD display, 6 integer 2 decimal, meter display when power fails
- Clear green backlight display
- S0 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	Volts (L1,L2,-N) Amps (L1,L2, Σ ,Neutral) kW&kvar&kVA&PF (L1,L2,, Σ) Frequency kWh,kvarh (+, -, Σ) kW&kvar Demand (+, -, Σ) Tariff kWh& kvarh (T1,T2,T3,T4, Σ)
Rated current	10A
Rated voltage	120/240V
Frequency (Hz)	50 or 60Hz
Maximum current	100A
Maximum value measured	999999.99kWh,999999.99kvarh
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

General data	
Pulse width(ms)	80
Pulse constant(imp/kWh)	1000
LED constant(imp/kWh)	1000
Dimension	
Width (mm)	76
Height (mm)	104.5
Depth (mm)	60
Environmental	
Operating temperature	-25°C - +55°C
Storage temperature	-40°C - +70°C