

EM415-Mod-WL

single phase Graphic display wireless energy meter with LoRa



Single phase metering 4 din modules

Direct metering up to 100A

128*64 pixel LCD Graphic Display ,clear White backlight

Multi electricity parameters measurement (Voltage, Ampere, kW, PF, Hz, Σ kWh)

+kWh, -kWh, +kvarh, -kvarh, var, VA available through interface

Metrological LED for energy flow indication

Programming by button on the nameplate

Support several communication ways (LAN/RS485 port)

Lora LAN communication frequencies including 433/868/915/923Mhz

RS485 Modbus RTU with 16 bit CRC

Support remote parameter setting and device diagnosis

S0pulse output, transmission of measured values via pulses

Accuracy class 1 according to IEC62053-21

Memory back-up (EEPROM)



Characteristics

Type of measurement	Voltage, Ampe, kW, PF, Hz, Σ kWh
Rated current	10A
Rated voltage	230V
Frequency (Hz)	50 or 60Hz
Maximum value measured	999999.9kWh
Power consumption of current circuits(VA)	< 0.01
Power consumption of voltage circuits(W)	< 1.3W
Current terminals flexible 1×mm ²	0-16mm ²
another terminal flexible 1×mm ²	0-2.5mm ²

LCD specifications

LCD type	Graphic display STN
Pixel	128×64
Connector	COG+BL

LoRa specifications

Frequency range	433Mhz/868Mhz/915Mhz(default)/923Mhz
Modulation method	LoRa TM
Power consumption	data transmission 120mA@18db, receiving data 13mA
Transmission range	2500~4000m

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)	60
Depth (mm)	100
Environmental	
Operating temperature	-25°C - +55°C
Storage temperature	-40°C - +70°C