



## EM537 CT O series three phase energy meter-0.33V- Modbus-Multi-rates

- CE approved
- Three phase metering 5 din modules
- Rogowski & open-core sensor, 330mV ac input up to 7500A
- 27 CT ratio can be selected
- Wide voltage work: 3\*110~277/3\*230~480V
- 128x64 Lattice LCD display
- Clear blue backlight display
- Isolate pulse output
- RS485 communication port, modbus protocol
- 1,2,3 and 4 tariff meter option
- Electrical measurements
- 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,L3-N) Amps (L1,L2,L3,Σ,Neutral) kW&kvar&kVA&PF (L1,L2,L3,Σ) Frequency kWh,kvarh (+, -, Σ) kW&kvar Demand (+, -, Σ) Tariff kWh& kvarh (T1,T2,T3,T4,Σ)
Primary Current(A)	Open core : AC 0-3000A Rogowski: AC 0-7500A
Second input(mV)	330
Rated voltage	3*110~277/3*230~480V
Frequency (Hz)	50 or 60Hz
Maximum value measured	5:5 999999.99kWh 5: 5 < CT ratio < 200 9999999.9kWh CT ratio ≥ 200 99999999kWh
Power consumption	<2W 10VA
Terminals flexible 1xmm <sup>2</sup>	0-2.5mm <sup>2</sup>
RS485 cable	AWG18

### 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
<b>General data</b>	
Pulse width(ms)	80ms
Pulse constant(imp/kWh)	Prog imp/kWh
LED constant(imp/kWh)	Prog imp/kWh
<b>Dimension</b>	
Width (mm)	90
Height (mm)	104.5
Depth (mm)	60
<b>Environmental</b>	
Operating temperature	-25°C - +55°C
Storage temperature	-40°C - +70°C