



Main

Range	PowerLogic
Product or component type	Multi-circuit energy meter
Product name	PowerLogic EM4900E
Device short name	EM4914
Power monitoring	Basic instrumentation
Energy management	Sub billing and cost allocation Billing analysis
Device application	Sub billing
Type of measurement	Current per phase, rms Current average Phase angle Active power total Active power per phase Apparent power total Apparent power per phase Power factor average Power factor per phase Active energy
Metering type	Demand current I1, I2, I3, peak demand current IM1, IM2, IM3 Demand power P
[Us] rated supply voltage	100...277 V AC 50/60 Hz
Network frequency	60 Hz 50 Hz

Complementary

Sampling rate	256 samples/cycle
Current transformer input	Solid core CT 0.333 V42 x single pole Solid core CT 0.333 V21 x single phase Solid core CT 0.333 V14 x three phase Split core CT 0.333 V42 x single pole Split core CT 0.333 V21 x single phase Split core CT 0.333 V14 x three phase
Measurement voltage	150...480 V AC 50/60 Hz between phases 90...277 V AC 50/60 Hz between phase and neutral
Measurement accuracy	Power +/- 0.5 % of the measuring range Energy +/- 0.5 % of the measuring range Current +/- 0.5 % of the measuring range Voltage +/- 0.5 % of the measuring range

Communication port protocol	Modbus RTU at 9600, 19200, 38400 bps even/odd or none - 2 wires Modbus TCP at 9600, 19200, 38400 bps even/odd or none - 2 wires SNMP BACnet IP at 10, 100 Mbits BACnet MS/TP
Communication port support	Spring connector: RS485 RJ45
Data update rate	2 s (Modbus) 14 s (BACnet) 20 s (SNMP)
Data recording	Maximum of instantaneous current Maximum of demand current Maximum of demand active power
Communication of data	Low current alarm Low-low current alarm Over voltage alarm Under voltage alarm High current alarm High-high current alarm Total energy
Web services	Web server
Communication service	Updating firmware

Environment

Mounting mode	Wall mount
Installation category	III
Pollution degree	2
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...70 °C
Standards	UL 508 IEC 61010
Width	253 mm
Depth	307 mm
Height	70 mm
Net weight	1.5 kg

Offer Sustainability

EU RoHS Directive	Under investigation
China RoHS Regulation	China RoHS declaration
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins