

Product data sheet

Specifications



PowerLogic EM4900 Multi-Circuit Meter – 04x3P circuits - Ethernet and Serial

METSEEM4904E

! To be discontinued

! To be discontinued on: Dec 31, 2024

! To be end-of-service on: Dec 31, 2032

Main

Range	PowerLogic
Product Or Component Type	Multi-circuit energy meter
Product Name	PowerLogic EM4900E
Device Short Name	EM4904
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 power P Demand current I1, I2, I3, peak demand current IM1, IM2, IM3
[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 V12 x single pole Solid core CT 0.333 V6 x single phase Solid core CT 0.333 V4 x three phase Split core CT 0.333 V12 x single pole Split core CT 0.333 V6 x single phase Split core CT 0.333 V4 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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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 demand active power Maximum of instantaneous current Maximum of demand current
Communication Of Data	High-high current alarm Under voltage alarm High current alarm Low current alarm Total energy Over voltage alarm Low-low current alarm
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

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	15.2 cm
Package 1 Width	36.5 cm
Package 1 Length	41.3 cm
Package 1 Weight	4.309 kg

Sustainability



Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product’s sustainability >](#)

Well-being performance

 Mercury Free	
 Rohs Exemption Information	Yes
Reach Regulation	REACH Declaration
Eu Rohs Directive	Compliant with Exemptions
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov