

# Product data sheet

Specifications



## PowerLogic EM4900 Multi-Circuit Meter – 14x3P circuits - Modbus RTU only

METSEEM4914A

! 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 EM4900
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 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	50 Hz 60 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 or 4 wires
Communication Port Support	RS485 screw block terminal

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

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 current alarm Low current alarm Total energy High-high current alarm Under voltage alarm Over voltage alarm Low-low current alarm
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	IEC 61010 UL 508
Width	288 mm
Depth	146 mm
Net Weight	1.5 kg

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	9.7 cm
Package 1 Width	21.1 cm
Package 1 Length	24.1 cm
Package 1 Weight	1.361 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-CO<sub>2</sub> products.

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

[Learn more about Green Premium >](#)

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

## Well-being performance

 Mercury Free	
 Rohs Exemption Information	<a href="#">Yes</a>
Reach Regulation	<a href="#">REACH Declaration</a>
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>