



### 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<br>Billing analysis                                                                                                                                                                             |
| Device Application        | Sub billing                                                                                                                                                                                                                     |
| Type of measurement       | Current per phase, rms<br>Current average<br>Phase angle<br>Active power total<br>Active power per phase<br>Apparent power total<br>Apparent power per phase<br>Power factor average<br>Power factor per phase<br>Active energy |
| Metering type             | Demand power P<br>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<br>60 Hz                                                                                                                                                                                                                  |

### Complementary

|                             |                                                                                                                                                                                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sampling rate               | 256 samples/cycle                                                                                                                                                                                                                                    |
| Current transformer input   | Solid core CT 0.333 V42 x single pole<br>Solid core CT 0.333 V21 x single phase<br>Solid core CT 0.333 V14 x three phase<br>Split core CT 0.333 V42 x single pole<br>Split core CT 0.333 V21 x single phase<br>Split core CT 0.333 V14 x three phase |
| Measurement voltage         | 150...480 V AC 50/60 Hz between phases<br>90...277 V AC 50/60 Hz between phase and neutral                                                                                                                                                           |
| Measurement accuracy        | Power +/- 0.5 % of the measuring range<br>Energy +/- 0.5 % of the measuring range<br>Current +/- 0.5 % of the measuring range<br>Voltage +/- 0.5 % of the measuring range                                                                            |
| Communication port protocol | Modbus RTU 9600, 19200, 38400 bps even/odd or none - 2 or 4 wires                                                                                                                                                                                    |
| Communication port support  | RS485 screw block terminal                                                                                                                                                                                                                           |
| Data update rate            | 2 s Modbus)<br>14 s BACnet)<br>20 s SNMP)                                                                                                                                                                                                            |
| Data recording              | Maximum of demand active power<br>Maximum of instantaneous current<br>Maximum of demand current                                                                                                                                                      |
| Communication of data       | High current alarm<br>Low current alarm<br>Total energy<br>High-high current alarm<br>Under voltage alarm<br>Over voltage alarm<br>Low-low current alarm                                                                                             |
| Communication Service       | Updating firmware                                                                                                                                                                                                                                    |

## Environment

|                                       |                            |
|---------------------------------------|----------------------------|
| Mounting Mode                         | Wall mount                 |
| Installation category                 | III                        |
| Pollution degree                      | 2                          |
| Ambient air temperature for operation | 32...140 °F (0...60 °C)    |
| Ambient Air Temperature for Storage   | -40...158 °F (-40...70 °C) |
| Standards                             | IEC 61010<br>UL 508        |
| Width                                 | 11.34 in (288 mm)          |
| Depth                                 | 5.75 in (146 mm)           |
| Net Weight                            | 3.31 lb(US) (1.5 kg)       |

## Ordering and shipping details

|                   |                                        |
|-------------------|----------------------------------------|
| Category          | 09793-PLOGIC BRANCH CIRCUIT BCPM & MCM |
| Discount Schedule | PL1                                    |
| GTIN              | 785901021452                           |
| Returnability     | No                                     |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Number of Units in Package 1 | 1                      |
| Package 1 Height             | 3.82 in (9.7 cm)       |
| Package 1 Width              | 8.31 in (21.1 cm)      |
| Package 1 Length             | 9.49 in (24.1 cm)      |
| Package 1 Weight             | 3.00 lb(US) (1.361 kg) |

## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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> |
| REACH Regulation           |  <a href="#">REACH Declaration</a>                                                                                                                                                                       |
| EU RoHS Directive          | Compliant  <a href="#">EU RoHS Declaration</a>                                                                                                                                                           |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                         |
| RoHS exemption information |  <a href="#">Yes</a>                                                                                                                                                                                     |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.                                                                                                                                                                |