

# Product data sheet

## Characteristics

# A9MEM3465

iEM3465 energy meter - BACnet - 1 DI - 1 DO - multi-tariff - LVCT



### Main

|                           |                |
|---------------------------|----------------|
| Range                     | Acti 9         |
| Range of product          | Acti 9 iEM3000 |
| Device short name         | IEM3465        |
| Product or component type | Energy meter   |

### Complementary

|                             |   |
|-----------------------------|---|
| Poles description           | 3P<br>1P + N<br>3P + N  |
| Type of measurement         | Active and reactive energy<br>Active and reactive power<br>Current<br>Voltage                             |
| Metering type               | Active, reactive, apparent energy (signed, four quadrant)   |
| Device application          | Sub billing<br>Multi-tariff<br>Partial meter  |
| Accuracy class              | Class 0.5S active energy conforming to IEC 62053-22<br>Class 0.5S active energy conforming to ANSI C12.20 |
| Input type                  | Split core current transducer 0.333 V or 1 V  |
| Rated voltage               | 100...277 V +/- 20 %<br>173...480 V +/- 20 %  |
| Network frequency           | 60 Hz<br>50 Hz  |
| Technology type             | Electronic  |
| Display type                | LCD display   |
| Sampling rate               | 32 samples/cycle  |
| Measurement current         | 1...32767000 mA   |
| Maximum value measured      | 99999999.9 kWh<br>99999999 MWh  |
| Tariff input                | Tariff (4)  |
| Communication port protocol | BACnet at 9.6, 19.2, 38.4, 57.6, 76.8 kbauds  |
| Communication port support  | Screw terminal block: RS485   |
| Local signalling            | Green indicator light: power ON<br>Yellow flashing LED: accuracy checking                                 |

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

|                         |   |
|-------------------------|---|
|                         | alarm: overload   |
| Number of inputs        | 1 digital 0...5 V/11...40 V 24 V DC   |
| Number of outputs       | 1 digital (static)  |
| Output voltage          | 5...40 V DC 50 mA   |
| Mounting mode           | Clip-on   |
| Mounting support        | DIN rail  |
| Connections - terminals | Current circuit: screw terminals 6 mm <sup>2</sup> cable(s)<br>Voltage circuit: screw terminals 2.5 mm <sup>2</sup> cable(s)<br>Input/output circuit: screw terminals 1.5 mm <sup>2</sup> cable(s)<br>Communication: screw terminals 2.5 mm <sup>2</sup> cable(s)                     |
| Tightening torque       | Input/output circuit: 0.5 N.m Philips screwdriver<br>Voltage circuit: 0.5 N.m Philips screwdriver<br>Current circuit: 0.8 N.m pozidriv screwdriver<br>Communication: 0.5 N.m Philips screwdriver  |
| Wire stripping length   | Input/output circuit: 6 mm<br>Voltage circuit: 8 mm<br>Current circuit: 8 mm<br>Communication: 7 mm   |
| Standards               | UL 61010-1<br>IEC 62053-21<br>IEC 61036<br>IEC 61010<br>IEC 61557-12<br>IEC 62053-23  |
| Product certifications  | CE conforming to IEC 61010 (safety)<br>CE conforming to EN 61557-12 (power monitor)<br>CE conforming to IEC 61326-1 (EMC)<br>CULus conforming to UL 61010 (safety)<br>CULus conforming to ANSI C12.20 (sub-meter)<br>EAC (sub-meter)<br>RCM conforming to NMI M 6-1 (sub-meter)<br>UL |

## Environment

|                                       |   |
|---------------------------------------|---|
| IP degree of protection               | IP40 front panel: conforming to IEC 60529<br>IP20 body: conforming to IEC 60529 |
| IK degree of protection               | IK08  |
| Pollution degree                      | 2   |
| Relative humidity                     | 5...95 % at 36 °C   |
| Ambient air temperature for operation | -25...70 °C - MID<br>-25...70 °C - NMI<br>-25...70 °C - IEC                     |
| Ambient air temperature for storage   | -40...85 °C   |
| Operating altitude                    | < 3000 m  |
| Colour                                | White   |
| 9 mm pitches                          | 10  |
| Width                                 | 90 mm   |
| Height                                | 87 mm   |
| Depth                                 | 69 mm   |

## Offer Sustainability

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