

# Product data sheet

Specifications



## iEM3250 energy meter - CT - Modbus

A9MEM3250

### Main

|                           |                |
|---------------------------|----------------|
| Range                     | Acti 9         |
| Range of product          | Acti 9 iEM3000 |
| Device short name         | IEM3250        |
| Product or component type | Energy meter   |

### Complementary

|                             |                                                                                                                                                              |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poles description           | 3P<br>3P + N<br>1P + N                                                                                                                                       |
| Type of measurement         | Active energy<br>Current<br>Voltage<br>Active power                                                                                                          |
| Device application          | Sub billing<br>Partial meter                                                                                                                                 |
| Accuracy class              | Class 0.5S active energy conforming to IEC 62053-22<br>Class 0.5S active energy conforming to IEC 61557-12<br>Class C active energy conforming to EN 50470-3 |
| Input type                  | External CT 1 A or 5 A                                                                                                                                       |
| [In] rated current          | 5 A<br>1 A                                                                                                                                                   |
| Rated voltage               | 100...277 V<br>173...480 V                                                                                                                                   |
| Network frequency           | 50 Hz<br>60 Hz                                                                                                                                               |
| Technology type             | Electronic                                                                                                                                                   |
| Display type                | LCD display                                                                                                                                                  |
| Sampling rate               | 32 samples/cycle                                                                                                                                             |
| Measurement current         | 1...32767000 mA                                                                                                                                              |
| Maximum value measured      | 99999999 MWh                                                                                                                                                 |
| Communication port protocol | Modbus RTU at 9.6, 19.2 and 38.4 kbauds even/odd or none, insulation 4000 V                                                                                  |
| Communication port support  | Screw terminal block: RS485                                                                                                                                  |
| Local signalling            | Green indicator light: power ON<br>Yellow flashing LED: accuracy checking<br>Yellow indicator light: communications are active on the Modbus port (Modbus)   |
| Number of inputs            | 0                                                                                                                                                            |

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

|                         |                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of outputs       | 0                                                                                                                                                                                                                                                                                     |
| Mounting mode           | Clip-on                                                                                                                                                                                                                                                                               |
| Mounting support        | DIN rail                                                                                                                                                                                                                                                                              |
| Connections - terminals | Current circuit: screw terminals 6 mm² cable(s)<br>Voltage circuit: screw terminals 2.5 mm² cable(s)                                                                                                                                                                                  |
| Overvoltage category    | III                                                                                                                                                                                                                                                                                   |
| Standards               | IEC 61557-12<br>IEC 62053-22<br>IEC 61036<br>IEC 62053-23<br>UL 61010-1<br>IEC 61010                                                                                                                                                                                                  |
| 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 |
| Pollution degree                      | 2                                                                               |
| Relative humidity                     | 5...95 % at 50 °C                                                               |
| Ambient air temperature for operation | -25...55 °C - IEC                                                               |
| Ambient air temperature for storage   | -40...85 °C                                                                     |
| Operating altitude                    | < 2000 m                                                                        |
| Colour                                | White                                                                           |
| 9 mm pitches                          | 10                                                                              |
| Width                                 | 90 mm                                                                           |
| Height                                | 95 mm                                                                           |
| Depth                                 | 69 mm                                                                           |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Weight             | 343 g     |
| Package 1 Height             | 8 cm      |
| Package 1 width              | 9.5 cm    |
| Package 1 Length             | 10.5 cm   |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 30        |
| Package 2 Weight             | 10.766 kg |
| Package 2 Height             | 30 cm     |
| Package 2 width              | 30 cm     |
| Package 2 Length             | 40 cm     |
| Unit Type of Package 3       | P12       |
| Number of Units in Package 3 | 720       |

|                  |            |
|------------------|------------|
| Package 3 Weight | 267.384 kg |
| Package 3 Height | 80 cm      |
| Package 3 width  | 120 cm     |
| Package 3 Length | 110 cm     |

### Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| 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>                                                                                      |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                               |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                                                     |
| 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: Cancer and Reproductive Harm - <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>                  |

### Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|