

# Product datasheet

Specifications



## iEM3265 energy meter - CT - BACnet - 1 digital I - 1 digital O - multi-tariff - MID

A9MEM3265

### Main

|                           |               |
|---------------------------|---------------|
| Range                     | Acti9         |
| range of product          | Acti9 iEM3000 |
| Device short name         | iEM3265       |
| 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>Partial meter<br>Multi-tariff                                                                                                                 |
| 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           | 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 MWh                                                                                                                                                 |
| tariff input                | Tariff (4)                                                                                                                                                   |
| Communication port protocol | BACnet at 9.6, 19.2, 38.4, 57.6, 76.8 kbauds, insulation 4000 V                                                                                              |
| Communication port support  | Screw terminal block: RS485                                                                                                                                  |
| Local signalling            | Green indicator light: power ON<br>Yellow flashing LED: accuracy checking<br>alarm: overload                                                                 |

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 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 mm² cable(s)<br>Voltage circuit: screw terminals 2.5 mm² cable(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Overvoltage category    | III                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Standards               | BS EN 61557-12:2021<br>IEC 61557-12:2021<br>EN 61557-12:2021<br>BS EN 61326-1<br>IEC 61326-1<br>EN 61326-1<br>BS EN 62052-11:2020<br>IEC 62052-11:2020<br>EN 62052-11:2020<br>BS EN 62053-21<br>IEC 62053-21<br>EN 62053-21<br>BS EN 62052-22<br>IEC 62053-22:2020<br>EN 62052-22<br>BS EN 62052-23<br>IEC 62053-23:2020<br>EN 62052-23<br>BS EN 62052-31:2015<br>IEC 62052-31:2015<br>EN 62052-31:2015<br>BS EN 61010-1:2010<br>EN 61010-1:2010<br>IEC 61010-1:2010<br>UL 61010-1:2010<br>BS EN 61010-2-30<br>IEC 61010-2-30<br>EN 61010-2-30<br>UL 61010-2-30<br>BS EN 50470-3<br>EN 50470-3<br>BS EN 50470-1<br>EN 50470-1<br>ANSI C12.20                           |
| Product certifications  | CE conforming to IEC 61010-1 (safety)<br>CE conforming to EN 61557-12 (power monitor)<br>CE conforming to EN/IEC 61326-1 (EMC)<br>UKCA conforming to BS EN 61010-1 (safety)<br>UKCA conforming to BS EN 61557-12 (power monitor)<br>UKCA conforming to BS EN 61326-1 (EMC)<br>CULus conforming to UL 61010-1 (safety)<br>CULus conforming to EN 61010-1 (safety)<br>EAC conforming to EN 50470-3 (sub-meter)<br>RCM conforming to EN 62052 (sub-meter)<br>KZ conforming to EN 50470-3 (sub-meter)<br>METAS conforming to EN 50470-1 (sub-meter)<br>MID conforming to EN 50470-3 (sub-meter)<br>MID conforming to EN 50470-1 (sub-meter)<br>NMI conforming to NMI M 6-1 |

## 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...70 °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 Height             | 8 cm     |
| Package 1 Width              | 9.5 cm   |
| Package 1 Length             | 10.5 cm  |
| Package 1 Weight             | 359 g    |
| Unit Type of Package 2       | S03      |
| Number of Units in Package 2 | 30       |
| Package 2 Height             | 30 cm    |
| Package 2 Width              | 30 cm    |
| Package 2 Length             | 40 cm    |
| Package 2 Weight             | 11366 g  |
| Unit Type of Package 3       | P12      |
| Number of Units in Package 3 | 720      |
| Package 3 Height             | 80 cm    |
| Package 3 Width              | 120 cm   |
| Package 3 Length             | 110 cm   |
| Package 3 Weight             | 281784 g |

Sustainability



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Transparency   RoHS/REACH

## Well-being performance

|                                                                                                              |     |
|--------------------------------------------------------------------------------------------------------------|-----|
|  Mercury Free               |     |
|  RoHS Exemption Information | Yes |

## Certifications & Standards

|                          |                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>                                                                                           |
| Eu Rohs Directive        | Compliant with Exemptions                                                                                                   |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a>                                                                                      |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>                                                                               |
| Weee                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                                     |