



## Main

|                           |                |
|---------------------------|----------------|
| Range                     | Acti 9         |
| Range of product          | Acti 9 iEM3000 |
| Device short name         | IEM3255        |
| Product or component type | Energy meter   |

## Complementary

|                     |                                                                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poles description   | 3P + N<br>1P + N<br>3P                                                                                                                                       |
| 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  | Multi-tariff<br>Partial meter<br>Sub billing                                                                                                                 |
| 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 | 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>alarm: overload<br>Yellow indicator light: communications are active on the Modbus port (Modbus)                                                                                                                                                                                               |
| 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)                                                                                                                                                                                                                                                |
| Overvoltage category        | III                                                                                                                                                                                                                                                                                                                                                                         |
| Standards                   | IEC 61036<br>IEC 62053-23<br>UL 61010-1<br>IEC 61010<br>IEC 62053-22<br>IEC 61557-12                                                                                                                                                                                                                                                                                        |
| 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<br>MID conforming to EN 50470-3 (sub-meter)<br>MID conforming to EN 62052 (sub-meter) |

## 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 - MID<br>-25...60 °C - NMI<br>-25...60 °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                                                                           |

## Offer Sustainability

|                            |                                                  |
|----------------------------|--------------------------------------------------|
| Sustainable offer status   | Green Premium product                            |
| 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 |
|------|-----------------------------------------------------------------------------------------------------------------------------|

### Contractual warranty

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