



## Main

|                           |                |
|---------------------------|----------------|
| Range                     | Acti 9         |
| Range of product          | Acti 9 iEM3000 |
| Device short name         | IEM3555        |
| Product or component type | Energy meter   |

## Complementary

|                             |                                                                                                                                                                                                                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poles description           | 3P<br>3P + N<br>1P + 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          | Multi-tariff<br>Partial meter<br>Sub billing                                                                                                                                                                                                                                                                              |
| Accuracy class              | Class 0.5S active energy IEC 62053-22<br>Class 0.5S active energy ANSI C12.20                                                                                                                                                                                                                                             |
| Input type                  | Rogowski coil 50...5000 A                                                                                                                                                                                                                                                                                                 |
| Rated voltage               | 100...277 V +/- 20 %<br>173...480 V +/- 20 %                                                                                                                                                                                                                                                                              |
| Network frequency           | 50 Hz<br>60 Hz                                                                                                                                                                                                                                                                                                            |
| Technology type             | Electronic                                                                                                                                                                                                                                                                                                                |
| Display type                | LCD display                                                                                                                                                                                                                                                                                                               |
| Sampling rate               | 32 samples/cycle                                                                                                                                                                                                                                                                                                          |
| Measurement current         | 50...5000 A                                                                                                                                                                                                                                                                                                               |
| Maximum value measured      | 99999999.9 kWh<br>99999999 MWh                                                                                                                                                                                                                                                                                            |
| Tariff input                | Tariff 4)                                                                                                                                                                                                                                                                                                                 |
| Communication port protocol | Modbus RTU 9.6, 19.2 and 38.4 kbauds even/odd or none                                                                                                                                                                                                                                                                     |
| 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 0.01 in <sup>2</sup> (6 mm <sup>2</sup> )<br>Voltage circuit screw terminals 0.00 in <sup>2</sup> (2.5 mm <sup>2</sup> )<br>Input/Output circuit screw terminals 0.00 in <sup>2</sup> (1.5 mm <sup>2</sup> )<br>Communication screw terminals 0.00 in <sup>2</sup> (2.5 mm <sup>2</sup> ) |

|                        |                                                                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tightening torque      | Input/Output circuit 4.43 lbf.in (0.5 N.m) Philips<br>Voltage circuit 4.43 lbf.in (0.5 N.m) Philips<br>Current circuit 7.08 lbf.in (0.8 N.m) pozidriv<br>Communication 4.43 lbf.in (0.5 N.m) Philips |
| Wire stripping length  | Input/Output circuit 0.24 in (6 mm)<br>Voltage circuit 0.31 in (8 mm)<br>Current circuit 0.31 in (8 mm)<br>Communication 0.28 in (7 mm)                                                              |
| Standards              | UL 61010-1<br>IEC 62053-21<br>IEC 61036<br>IEC 61557-12<br>IEC 62053-23<br>IEC 61010                                                                                                                 |
| Product certifications | CE IEC 61010 safety)<br>CE EN 61557-12 power monitor)<br>CE IEC 61326-1 EMC)<br>CULus UL 61010 safety)<br>CULus ANSI C12.20 sub-meter)<br>EAC sub-meter)<br>RCM NMI M 6-1 sub-meter)<br>UL           |

## Environment

|                                       |                                                   |
|---------------------------------------|---------------------------------------------------|
| IP degree of protection               | Front panel IP40 IEC 60529<br>Body IP20 IEC 60529 |
| IK degree of protection               | IK08                                              |
| Pollution degree                      | 2                                                 |
| Relative humidity                     | 5...95 % 97 °F (36 °C)                            |
| Ambient air temperature for operation | -13...158 °F (-25...70 °C) - IEC                  |
| Ambient air temperature for storage   | -40...185 °F (-40...85 °C)                        |
| Operating altitude                    | < 9842.52 ft (3000 m)                             |
| Color                                 | White                                             |
| 9 mm pitches                          | 10                                                |
| Maximum Width                         | 3.54 in (90 mm)                                   |
| Maximum Height                        | 3.43 in (87 mm)                                   |
| Maximum Depth                         | 2.72 in (69 mm)                                   |

## Ordering and shipping details

|                       |                              |
|-----------------------|------------------------------|
| Category              | 09786 - SE ENTRY POWER METER |
| Discount Schedule     | PL1                          |
| GTIN                  | 00785901334699               |
| Nbr. of units in pkg. | 1                            |
| Package weight(Lbs)   | 0.75 lb(US) (0.34 kg)        |
| Returnability         | Yes                          |
| Country of origin     | CN                           |

## Packing Units

|                  |                     |
|------------------|---------------------|
| Package 1 Height | 3.35 in (8.500 cm)  |
| Package 1 width  | 4.25 in (10.800 cm) |
| Package 1 Length | 3.74 in (9.500 cm)  |

## Offer Sustainability

|                            |                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS Directive          | Compliant  <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes                                                                                                                               |
| RoHS exemption information |  Yes                                           |
| 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.      |