# Product data sheet
## Characteristics

# A9MEM3455
## Acti9, IEM3455 energy meter - Modbus - 1 DI - 1 DO - multi-tariff - LVCT

## Main

| | |
|---|---|
| Range | Acti9 |
| Range of product | Acti9 iEM3000 |
| Device short name | iEM3455 |
| 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 | 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 | Modbus RTU at 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 6 mm² cable(s)<br>Voltage circuit: screw terminals 2.5 mm² cable(s)<br>Input/Output circuit: screw terminals 1.5 mm² cable(s)<br>Communication: screw terminals 2.5 mm² 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 | BS EN 61326-1<br>IEC 61326-1<br>EN 61326-1<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>ANSI C12.20 |
| Product certifications | CE conforming to IEC 61010-1 (safety)[RETURN]CE conforming to EN 61557-12 (power monitor)[RETURN]CE conforming to EN/IEC 61326-1 (EMC)[RETURN]UKCA conforming to BS EN 61010-1 (safety)[RETURN]UKCA conforming to BS EN 61557-12 (power monitor)[RETURN]UKCA conforming to BS EN 61326-1 (EMC)[RETURN]CULus conforming to UL 61010-1 (safety)[RETURN]CULus conforming to EN 61010-1 (safety)[RETURN]KZ[RETURN]RCM |

## 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 - 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 |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 8.5 cm |
| Package 1 Width | 9.6 cm |
| Package 1 Length | 10.5 cm |
| Package 1 Weight | 337 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 | 11.257 kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 240 |
| Package 3 Height | 80 cm |

| | |
|---|---|
| Package 3 Width | 80 cm |
| Package 3 Length | 60 cm |
| Package 3 Weight | 100.364 kg |

## Offer Sustainability

| | |
|---|---|
| Sustainable offer status | Green Premium product |
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Compliant with Exemptions |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |