

Product datasheet

Specifications



iEM3155 energy meter - 63 A - Modbus - 1 digital I - 1 digital O - multi-tariff - MID

TSI code: 397406760 A9MEM3155

Main

| | |
|---------------------------|----------------|
| Range | Acti 9 |
| Range of product | Acti 9 iEM3000 |
| Device short name | IEM3155 |
| Product or component type | Energy meter |

Complementary

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|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poles description | 3P + N 1P + N 3P |
| Type of measurement | Active and reactive energy Active and reactive power Current Voltage |
| Metering type | Active, reactive, apparent energy (signed, four quadrant) |
| Device application | Multi-tariff Sub billing Partial meter |
| Accuracy class | Class 1 active energy conforming to IEC 62053-21 Class 1 active energy conforming to IEC 61557-12 Class B active energy conforming to EN 50470-3 |
| Input type | Direct input |
| [In] rated current | 63 A |
| Rated voltage | 100...277 V 173...480 V |
| Network frequency | 60 Hz 50 Hz |
| Technology type | Electronic |
| Display type | LCD display |
| Sampling rate | 32 samples/cycle |
| Measurement current | 0...63 A |
| Maximum value measured | 99999999.9 kWh |
| 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 Yellow flashing LED: accuracy checking alarm: overload |

Yellow indicator light: communications are active on the Modbus port (Modbus)

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|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 | Screw terminals 16 mm ² cable(s) |
| Overvoltage category | III |
| Standards | IEC 62053-21 IEC 61036 IEC 62053-23 IEC 61557-12 IEC 61010 UL 61010-1 |
| Product certifications | CE conforming to IEC 61010 (safety) CE conforming to EN 61557-12 (power monitor) CE conforming to IEC 61326-1 (EMC) CULus conforming to UL 61010 (safety) CULus conforming to ANSI C12.20 (sub-meter) EAC (sub-meter) RCM conforming to NMI M 6-1 (sub-meter) UL MID conforming to EN 50470-3 (sub-meter) MID conforming to EN 62052 (sub-meter) |

Environment

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|----------------------------------------------|---------------------------------------------------------------------------------|
| IP degree of protection | IP40 front panel: conforming to IEC 60529 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 -25...60 °C - NMI -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 |

Packing Units

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|-------------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 461 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 | 14.306 kg |
| Package 2 Height | 30 cm |

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|------------------|-------|
| Package 2 width | 30 cm |
| Package 2 Length | 40 cm |

Offer Sustainability

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration |
| 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 |

Contractual warranty

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| Warranty | 18 months |
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