

# Product datasheet

Specifications



## modular single phase power meter iEM2155 - 230V - 63A with communication Modbus - MID

A9MEM2155

⚠ Discontinued on: 27 Jul 2023

⚠ To be end-of-service on: 31 Dec 2024

⚠ Discontinued

### Main

|                           |               |
|---------------------------|---------------|
| Range                     | Acti9         |
| Family                    | Acti9 iEM2100 |
| Device Short Name         | iEM2155       |
| Product Or Component Type | Energy meter  |

### Complementary

|                             |  |
|-----------------------------|--|
| Poles Description           | 1P + N   |
| Type Of Measurement         | Active and reactive energy<br>Active and reactive power<br>Current<br>Voltage<br>Power factor<br>Frequency   |
| Metering Type               | Active, reactive, apparent energy (signed, four quadrant)  |
| Device Application          | Partial meter<br>Sub billing<br>Multi-tariff   |
| Accuracy Class              | Class 1 active energy conforming to IEC 62053-21<br>Class B active energy conforming to EN 50470-3<br>Class 2 reactive energy conforming to IEC 62053-23 |
| Input Type                  | Direct input   |
| Maximum Current [Imax]      | 63 A   |
| [Ib] Basic Current          | 5 A  |
| Rated Current               | 63 A   |
| Rated Voltage               | 230 V +/- 20 %   |
| Network Frequency           | 60 Hz<br>50 Hz   |
| Frequency Measurement Range | 45...65 Hz   |
| Technology Type             | Electronic   |
| Display Type                | LCD display  |
| Sampling Rate               | 32 samples/cycle   |
| Measurement Current         | 0.5...63 A   |
| Display Digits              | 8  |
| Maximum Value Measured      | 999999.99 kWh  |

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

|  |  |
|--|--|
| Tariff Counter                         | Tariff (2)   |
| Communication Port Protocol            | Modbus RTU at 1.2, 2.4, 4.8, 9.6, 19.2 and 38.4 kbauds even/odd or none - 3 wires, insulation 4000 V   |
| Communication Port Support             | Screw terminals: RS485   |
| Local Signalling                       | Red LED: accuracy checking 1...1000 p/kWh  |
| Digital Inputs                         | 1 digital  |
| Supply Voltage                         | 96...276 V AC 50 Hz  |
| Maximum Power Consumption In Va        | 3 VA at 240 V AC   |
| Maximum Power Consumption In W         | 1 W  |
| [Uimp] Rated Impulse Withstand Voltage | 6 kV 1.2/50 µs   |
| Mounting Mode                          | Clip-on  |
| Mounting Support                       | DIN rail   |
| Connections - Terminals                | Power circuit: tunnel type terminals (bottom) 1 1.65...33 mm² cable(s) solid<br>Power circuit: tunnel type terminals (bottom) 1 1.65...33 mm² cable(s) stranded with cable end<br>Communication: screw clamp terminals (top) 1 1...4 mm² cable(s) solid<br>Communication: screw clamp terminals (top) 1 1...2.5 mm² cable(s) stranded with cable end |
| Tightening Torque                      | Power circuit: 2 N.m PZ2 screwdriver<br>Communication: 0.5 N.m3.5 mm   |
| Wire Stripping Length                  | Power circuit: 17 mm<br>Communication: 7 mm  |
| Standards                              | IEC 62052-11<br>IEC 62053-23<br>IEC 62052-31<br>IEC 62053-21   |
| Product Certifications                 | MID conforming to EN 50470-1<br>MID conforming to EN 50470-3<br>CE   |

## Environment

|                                       |   |
|---------------------------------------|---|
| Ip Degree Of Protection               | IP40 front panel: conforming to IEC 60529<br>IP20 casing: |
| Overvoltage Category                  | III   |
| Pollution Degree                      | 2   |
| Flame Retardance                      | V0 conforming to UL 94                                    |
| Ambient Air Temperature For Operation | -25...55 °C   |
| Ambient Air Temperature For Storage   | -25...70 °C   |
| Operating Altitude                    | < 2000 m  |
| Relative Humidity                     | 0...95 % at 55 °C   |
| Colour                                | White   |
| 9 Mm Pitches                          | 4   |
| Width                                 | 36 mm   |
| Height                                | 90 mm   |
| Depth                                 | 70 mm   |
| Net Weight                            | 0.175 kg  |

# Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type Of Package 1       | PCE      |
| Number Of Units In Package 1 | 1        |
| Package 1 Height             | 5.2 cm   |
| Package 1 Width              | 8.0 cm   |
| Package 1 Length             | 9.8 cm   |
| Package 1 Weight             | 219.0 g  |
| Unit Type Of Package 2       | S02      |
| Number Of Units In Package 2 | 29       |
| Package 2 Height             | 15 cm    |
| Package 2 Width              | 30 cm    |
| Package 2 Length             | 40 cm    |
| Package 2 Weight             | 6.806 kg |

## Sustainability





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## Well-being performance

|   |                            |  |
|---|----------------------------|--|
|  | Reach Free Of Svhc         |  |
|  | Toxic Heavy Metal Free     |  |
|  | Mercury Free               |  |
|  | Rohs Exemption Information | <a href="#">Yes</a>                    |
|   |                            |  |
| Eu Rohs Directive   |                            | Compliant                              |
|   |                            | <a href="#">EU RoHS Declaration</a>    |
|   |                            |  |
| China Rohs Regulation   |                            | <a href="#">China RoHS declaration</a> |