

# Product data sheet

Specifications



## modular single phase power meter iEM2135 - 230V - 63A with communication M-Bus - MID

A9MEM2135

### Main

|                           |                |
|---------------------------|----------------|
| Range                     | Acti 9         |
| Family                    | Acti 9 iEM2100 |
| Device short name         | iEM2135        |
| 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                  | Sub billing<br>Partial meter<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 [I <sub>max</sub> ] | 63 A   |
| [I <sub>b</sub> ] basic current     | 5 A  |
| Rated current                       | 63 A   |
| Rated voltage                       | 230 V +/- 20 %   |
| Network frequency                   | 50 Hz<br>60 Hz   |
| Frequency measurement range         | 45...65 Hz   |
| Technology type                     | Electronic   |
| Display type                        | LCD display  |
| Sampling rate                       | 32 samples/cycle   |
| Measurement current                 | 0.25...63 A  |
| Display digits                      | 8  |
| Maximum value measured              | 999999.99 kWh  |
| Tariff input                        | Tariff (2)   |

|   |  |
|---|--|
| <b>Communication port protocol</b>            | M-bus at 300, 600, 1200, 2400, 4800 and 9600 bauds - 2 wires, insulation 3750 V  |
| <b>Communication port support</b>             | Screw terminals: M-Bus   |
| <b>Local signalling</b>                       | Red LED: accuracy checking 1...1000 p/kWh  |
| <b>Digital inputs</b>                         | 1 digital  |
| <b>Supply voltage</b>                         | 96...276 V AC 50 Hz  |
| <b>Maximum power consumption in VA</b>        | 3 VA at 240 V AC   |
| <b>Maximum power consumption in W</b>         | 1 W  |
| <b>[Uimp] rated impulse withstand voltage</b> | 6 kV 1.2/50 µs   |
| <b>Mounting mode</b>                          | Clip-on  |
| <b>Mounting support</b>                       | DIN rail   |
| <b>Connections - terminals</b>                | Power circuit: tunnel type terminals (bottom) 1 1.65...33 mm <sup>2</sup> cable(s) solid<br>Power circuit: tunnel type terminals (bottom) 1 1.65...33 mm <sup>2</sup> cable(s) stranded with cable end<br>Communication: screw clamp terminals (top) 1 1...4 mm <sup>2</sup> cable(s) solid<br>Communication: screw clamp terminals (top) 1 1...2.5 mm <sup>2</sup> cable(s) stranded with cable end |
| <b>Tightening torque</b>                      | Power circuit: 2 N.m PZ2 screwdriver<br>Communication: 0.5 N.m3.5 mm   |
| <b>Wire stripping length</b>                  | Power circuit: 17 mm<br>Communication: 7 mm  |
| <b>Standards</b>                              | IEC 62053-23<br>IEC 62052-31<br>IEC 62052-11<br>IEC 62053-21   |
| <b>Product certifications</b>                 | MID conforming to EN 50470-1<br>MID conforming to EN 50470-3<br>CE   |

## Environment

|  |   |
|--|---|
| <b>IP degree of protection</b>               | IP40 front panel: conforming to IEC 60529<br>IP20 casing: |
| <b>Overvoltage category</b>                  | III   |
| <b>Pollution degree</b>                      | 2   |
| <b>Flame retardance</b>                      | V0 conforming to UL 94                                    |
| <b>Ambient air temperature for operation</b> | -25...55 °C   |
| <b>Ambient air temperature for storage</b>   | -25...70 °C   |
| <b>Operating altitude</b>                    | < 2000 m  |
| <b>Relative humidity</b>                     | 0...95 % at 55 °C   |
| <b>Colour</b>                                | White   |
| <b>9 mm pitches</b>                          | 4   |
| <b>Width</b>                                 | 36 mm   |
| <b>Height</b>                                | 90 mm   |
| <b>Depth</b>                                 | 70 mm   |
| <b>Net weight</b>                            | 0.175 kg  |

## Packing Units

|                                     |        |
|-------------------------------------|--------|
| <b>Unit Type of Package 1</b>       | PCE    |
| <b>Number of Units in Package 1</b> | 1      |
| <b>Package 1 Height</b>             | 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             | 15.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 6.806 kg |

## Offer Sustainability

|                            |  |
|----------------------------|--|
| REACH Regulation           | <a href="#">REACH Declaration</a>                |
| REACH free of SVHC         | Yes  |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a> |
| Toxic heavy metal free     | Yes  |
| Mercury free               | Yes  |
| RoHS exemption information | <a href="#">Yes</a>                              |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>           |

## Recommended replacement(s)