

Product datasheet

Specifications



modular single phase power meter iEM2455 - 230V - 100A with communication Modbus

A9MEM2455

Price: 4,900.10 ZAR

Main

| | |
|---------------------------|---------------|
| Range | Acti9 |
| family | Acti9 iEM2000 |
| Product or component type | Energy meter |
| Device short name | iEM2455 |

Complementary

| | |
|-----------------------------|--|
| Poles description | 1P + N |
| Type of measurement | Active and reactive energy Active and reactive power Apparent power Power factor Current Voltage Frequency |
| Metering type | Active and reactive energy |
| Device application | Sub billing Multi-tariff |
| Accuracy class | Class 1 active energy conforming to IEC 62053-21 Class 2 reactive energy conforming to IEC 62053-23 Class B active energy conforming to EN 50470-1 Class B active energy conforming to EN 50470-3 |
| Analogue input type | Direct input |
| Rated current | 100 A |
| Rated voltage | 230 V |
| Network frequency | 50 Hz 60 Hz |
| Frequency measurement range | 45...66 Hz |
| Technology type | Electronic |
| Display type | LCD display |
| Sampling rate | 32 samples/cycle |
| Measurement current | 0.25...100 A |
| Display digits | 7 |
| Maximum value measured | 99999.99 kWh 999999.9 kWh |
| Information displayed | Tariff (2) |
| Communication port protocol | Modbus RTU at 1200...38400 bauds even/odd or none |
| Communication port support | Screw terminals: RS485 |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

| | |
|--|--|
| Local signalling | Red LED: metering and activity 10000, 2000, 1000, 100, 10, 1, 0.1 or 0.01 imp/kWh |
| Impulse duration | 5...32 ms |
| [Us] rated supply voltage | 195...253 V AC 50 Hz |
| Maximum power consumption in VA | 10 VA at 240 V AC |
| Maximum power consumption in W | 1 W per phase |
| [Uimp] rated impulse withstand voltage | 6 kV 1.2/50 µs |
| Mounting mode | Clip-on |
| Mounting support | DIN rail |
| Connections - terminals | Power circuit: screw clamp terminals (bottom) 25 mm ² cable(s) Communication: screw clamp terminals (top) 2.5 mm ² cable(s) |
| Standards | IEC 62052-11 IEC 62053-21 IEC 62053-23 IEC 62052-31 |
| Product certifications | MID conforming to EN 50470-1 MID conforming to EN 50470-3 CE |

Environment

| | |
|---------------------------------------|---|
| IP degree of protection | IP51 front panel: conforming to IEC 60529 IP20 casing: |
| Pollution degree | 2 |
| Ambient air temperature for operation | -40...70 °C |
| Ambient air temperature for storage | -40...80 °C |
| Operating altitude | <= 2000 m |
| Relative humidity | 0...75 % operation 0...95 % storage |
| Colour | White |
| 9 mm pitches | 4 |
| Width | 35.8 mm |
| Height | 96.7 mm |
| Depth | 63 mm |

Packing Units

| | |
|------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 6.600 cm |
| Package 1 Width | 4.000 cm |
| Package 1 Length | 10.000 cm |
| Package 1 Weight | 191.200 g |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 5 |
| Package 2 Height | 7.700 cm |
| Package 2 Width | 11.000 cm |

| | |
|-------------------------------------|-----------|
| Package 2 Length | 22.000 cm |
| Package 2 Weight | 1.001 kg |
| Unit Type of Package 3 | S03 |
| Number of Units in Package 3 | 30 |
| Package 3 Height | 30.000 cm |
| Package 3 Width | 30.000 cm |
| Package 3 Length | 40.000 cm |
| Package 3 Weight | 6.136 kg |

Contractual warranty

| | |
|-----------------------------|----|
| Warranty (in months) | 18 |
|-----------------------------|----|



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint 14

Environmental Disclosure [Product Environmental Profile](#)

Use Better



Materials and Substances

Packaging made with recycled cardboard No

Packaging without single use plastic No

[EU RoHS Directive](#) Compliant with Exemptions

REACH Regulation [REACH Declaration](#)

Use Longer



Lifetime extension

Repair No

Use Again



Repack and remanufacture

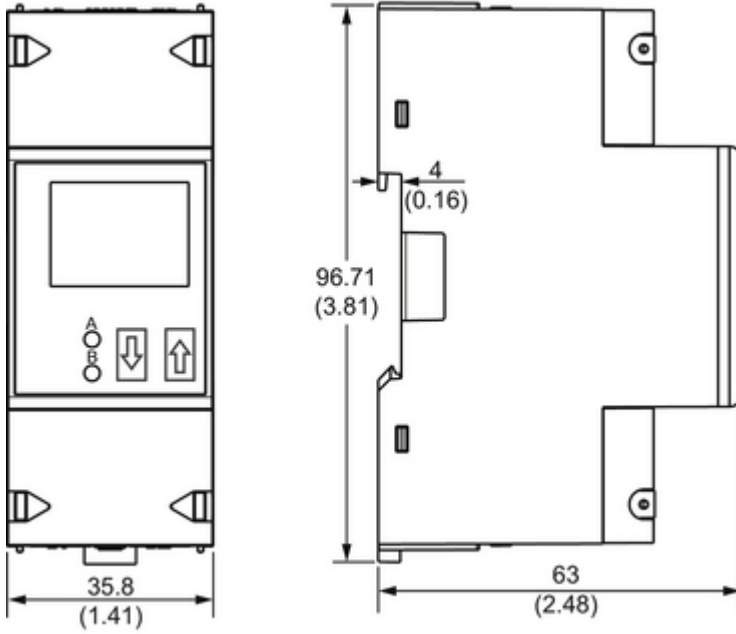
End of life manual availability [End of Life Information](#)

Take-back No

WEEE Label  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Technical Illustration

Dimensions



Technical Illustration

Assembly's dimensions

