

Product datasheet

Specifications



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

A9MEM2455

EAN Code: 3606482187177

Main

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

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 50470-3
Input type	Direct input
Rated current	100 A
Rated voltage	230 V - 15...10 %
Network frequency	50 Hz 60 Hz
Technology type	Electronic
Display type	LCD display
Sampling rate	32 samples/cycle
Measurement current	5...100 A
Display digits	7
Maximum value measured	99999.99 kWh 999999.9 kWh
Tariff counter	Tariff (2)
Communication port protocol	Modbus RTU at 1200...38400 bauds even/odd or none
Communication port support	Screw terminals: RS485
Local signalling	Red LED: metering and activity 0.01, 0.1, 1, 10, 100, 1000, 2000 or 10000 p/kWh
Digital inputs	0

Output voltage	5...27 V DC@100 mA
Impulse duration	5...32 ms
Supply voltage	195...253 V AC 50 Hz
Maximum power consumption in VA	1 VA at 240 V AC
Mounting mode	Clip-on
Mounting support	DIN rail
Connections - terminals	Power circuit: screw clamp terminals (bottom) 1 2.5...35 mm ² cable(s) Communication: screw clamp terminals (top) 1 2.5 mm ² cable(s)
Standards	IEC 62052-11 IEC 62053-21 IEC 61010-1
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	-25...55 °C
Ambient air temperature for storage	-30...70 °C
Operating altitude	< 2000 m
Relative humidity	0...95 %
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	190.000 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	998.000 g
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	7.054 kg

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

Reach Free Of Svhc

Mercury Free

Rohs Exemption Information [Yes](#)

Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant with Exemptions

China Rohs Regulation [China RoHS declaration](#)

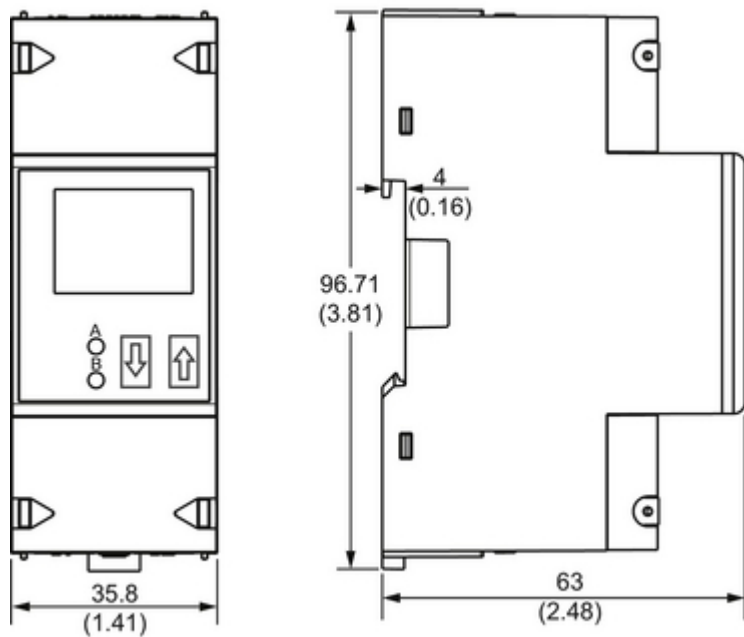
Environmental Disclosure [Product Environmental Profile](#)

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

Circularity Profile [End of Life Information](#)

Technical Illustration

Dimensions



Technical Illustration

Assembly's dimensions

