

Product data sheet

Characteristics

A9MEM2455

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



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	999999.99 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

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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 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	7.054 kg

Offer Sustainability

REACH Regulation	 REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins