# 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

Bulling	10 · M	
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 - 1510 %	
Network frequency	50 Hz 60 Hz	
Technology type	Electronic	
Display type	LCD display	
Sampling rate	32 samples/cycle	
Measurement current	5100 A	
Display digits	7	
Maximum value measured	99999.99 kWh 999999.9 kWh	
Tariff counter	Tariff (2)	
Communication port protocol	Modbus RTU at 120038400 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	527 V DC@100 mA	
Impulse duration	532 ms	
Supply voltage	195253 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 2.535 mm² cable(s) Communication: screw clamp terminals (top) 1 2.5 mm² 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	-2555 °C	
Ambient air temperature for storage	-3070 °C	
Operating altitude	< 2000 m	
Relative humidity	095 %	
Colour	White	
9 mm pitches	4	
Width	35.8 mm	
Height	96.7 mm	
Depth	63 mm	

## Packing Units

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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