

Product data sheet

Specifications



modular single phase power meter iEM2110 - 230V - 63A with pulse - MID

A9MEM2110

⚠ Discontinued on: Jun 30, 2023

⚠ Discontinued

Main

Range	Acti9
Family	Acti9 iEM2100
Device Short Name	iEM2110
Product Or Component Type	Energy meter

Complementary

Poles Description	1P + N
Type Of Measurement	Active and reactive energy Active and reactive power Current Voltage
Metering Type	Active, reactive, apparent energy (signed, four quadrant)
Device Application	Sub billing Partial meter Multi-tariff
Accuracy Class	Class 1 active energy conforming to IEC 62053-21 Class B active energy conforming to EN 50470-3 Class 2 reactive energy conforming to IEC 62053-23
Input Type	Direct input
Maximum Current [Imax]	63 A
[Ib] Basic Current	5 A
Rated Current	63 A
Rated Voltage	230 V +/- 20 %
Network Frequency	60 Hz 50 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 Counter	Tariff (2)
Communication Port Protocol	-

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Communication Port Support	-
Local Signalling	Red LED: accuracy checking 1...1000 p/kWh
Digital Inputs	1 digital
Digital Outputs	2 pulse energy monitoring:
Output Voltage	3...33 V AC@90 mA 5...70 V DC@90 mA
Impulse Duration	30...100 ms
Supply Voltage	96...276 V AC 50 Hz
Maximum Power Consumption In Va	3 VA at 240 V AC
Maximum Power Consumption In W	1 W
[Uimp] Rated Impulse Withstand Voltage	6 kV 1.2/50 µs
Mounting Mode	Clip-on
Mounting Support	DIN rail
Connections - Terminals	Power circuit: tunnel type terminals (bottom) 1 1.65...33 mm² cable(s) solid Power circuit: tunnel type terminals (bottom) 1 1.65...33 mm² cable(s) stranded with cable end Pulse output: screw clamp terminals (top) 1 1...4 mm² cable(s) solid Pulse output: screw clamp terminals (top) 1 1...2.5 mm² cable(s) stranded with cable end
Tightening Torque	Power circuit: 2 N.m PZ2 screwdriver Pulse output: 0.5 N.m3.5 mm
Wire Stripping Length	Power circuit: 17 mm Pulse output: 6 mm
Standards	IEC 62052-31 IEC 62053-21 IEC 62053-23 IEC 62052-11
Product Certifications	MID conforming to EN 50470-1 MID conforming to EN 50470-3 CE

Environment

Ip Degree Of Protection	IP40 front panel: conforming to IEC 60529 IP20 casing:
Overvoltage Category	III
Pollution Degree	2
Flame Retardance	V0 conforming to UL 94
Ambient Air Temperature For Operation	-25...55 °C
Ambient Air Temperature For Storage	-25...70 °C
Operating Altitude	< 2000 m
Relative Humidity	0...95 % at 55 °C
Colour	White
9 Mm Pitches	4
Width	36 mm
Height	90 mm
Depth	70 mm
Net Weight	0.175 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.2 cm
Package 1 Width	8.0 cm
Package 1 Length	9.8 cm
Package 1 Weight	216.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	29
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	6.719 kg

Sustainability





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

[Learn more about Green Premium >](#)

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

Well-being performance

	Reach Free Of Svhc	
	Toxic Heavy Metal Free	
	Mercury Free	
	Rohs Exemption Information	Yes
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Eu Rohs Directive		Compliant
		EU RoHS Declaration
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China Rohs Regulation		China RoHS declaration
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