



## 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 [I <sub>max</sub> ]	63 A
[I <sub>b</sub> ] 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	-
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 mm <sup>2</sup> cable(s) solid Power circuit: tunnel type terminals (bottom) 1 1.65...33 mm <sup>2</sup> cable(s) stranded with cable end Pulse output: screw clamp terminals (top) 1 1...4 mm <sup>2</sup> cable(s) solid Pulse output: screw clamp terminals (top) 1 1...2.5 mm <sup>2</sup> 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[RETURN]MID conforming to EN 50470-3[RETURN]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

## Offer Sustainability

REACH free of SVHC	Yes
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>