

# Product datasheet

Specifications



## modular single phase power meter iEM2155 - 230V - 63A with comm Modbus - MID

TSI code: 401330418 A9MEM2155

### Main

Range	Acti 9
Family	Acti 9 iEM2100
Device short name	IEM2155
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	Partial meter Sub billing 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
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...63 A
Display digits	8
Maximum value measured	999999.99 kWh
Tariff input	Tariff (2)
Communication port protocol	Modbus RTU at 1.2, 2.4, 4.8, 9.6, 19.2 and 38.4 kbauds even/odd or none - 3 wires, insulation 4000 V
Communication port support	Screw terminals: RS485

<b>Local signalling</b>	Red LED: accuracy checking 1...1000 p/kWh
<b>Digital inputs</b>	1 digital
<b>Digital outputs</b>	0
<b>Supply voltage</b>	96...276 V AC 50 Hz
<b>Maximum power consumption in VA</b>	2 VA
<b>Maximum power consumption in W</b>	1 W
<b>[Uimp] rated impulse withstand voltage</b>	6 kV 1.2/50 µs
<b>Mounting mode</b>	Clip-on
<b>Mounting support</b>	DIN rail
<b>Connections - terminals</b>	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 Communication: screw clamp terminals (top) 1 1...4 mm <sup>2</sup> cable(s) solid Communication: screw clamp terminals (top) 1 1...2.5 mm <sup>2</sup> cable(s) stranded with cable end
<b>Tightening torque</b>	Power circuit: 2 N.m PZ2 screwdriver Communication: 0.5 N.m 3.5 mm
<b>Wire stripping length</b>	Power circuit: 17 mm Communication: 7 mm
<b>Standards</b>	IEC 62052-11 IEC 62053-23 IEC 62052-31 IEC 62053-21
<b>Product certifications</b>	MID conforming to EN 50470-1 MID conforming to EN 50470-3 CE

## Environment

<b>IP degree of protection</b>	IP20 conforming to IEC 60529
<b>Overvoltage category</b>	III
<b>Pollution degree</b>	2
<b>Flame retardance</b>	V0 conforming to UL 94
<b>Ambient air temperature for operation</b>	-25...55 °C
<b>Ambient air temperature for storage</b>	-25...70 °C
<b>Relative humidity</b>	0...95 %
<b>Colour</b>	White
<b>9 mm pitches</b>	4
<b>Width</b>	36 mm
<b>Height</b>	90 mm
<b>Depth</b>	64 mm
<b>Net weight</b>	0.175 kg

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Weight</b>	219 g
<b>Package 1 Height</b>	5.2 cm
<b>Package 1 width</b>	8 cm

Package 1 Length	9.8 cm
Unit Type of Package 2	S02
Number of Units in Package 2	29
Package 2 Weight	6.806 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

## Offer Sustainability

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

## Contractual warranty

Warranty	18 months
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