

Product data sheet

Characteristics

A9MEM2150

Modular single phase power meter, Acti9, iEM2150, 230V, 63A with communication Modbus

Main

Range	Acti9
Family	Acti9 iEM2100
Device short name	iEM2150
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
Accuracy class	Class 1 active energy conforming to IEC 62053-21 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	50 Hz 60 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 (1)
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
Local signalling	Red LED: accuracy checking 1...1000 p/kWh
Digital inputs	0
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 ² cable(s) solid Power circuit: tunnel type terminals (bottom) 1 1.65...33 mm ² cable(s) stranded with cable end Communication: screw clamp terminals (top) 1 1...4 mm ² cable(s) solid Communication: screw clamp terminals (top) 1 1...2.5 mm ² cable(s) stranded with cable end
Tightening torque	Power circuit: 2 N.m PZ2 screwdriver Communication: 0.5 N.m 3.5 mm
Wire stripping length	Power circuit: 17 mm Communication: 7 mm
Standards	IEC 62052-31 IEC 62053-21 IEC 62053-23 IEC 62052-11
Product certifications	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	220.0 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	6.835 kg

Offer Sustainability

REACH free of SVHC	Yes
EU RoHS Directive	Compliant  EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes