

Product datasheet

Specifications



iEM3235 energy meter - CT - M-bus - 1 digital I - 1 digital O - multi-tariff - MID

Local distributor code: 397406919 A9MEM3235

Main

Range	Acti 9
Range of product	Acti 9 iEM3000
Device short name	IEM3235
Product or component type	Energy meter

Complementary

Poles description	3P 1P + N 3P + 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 0.5S active energy conforming to IEC 62053-22 Class 0.5S active energy conforming to IEC 61557-12 Class C active energy conforming to EN 50470-3
Input type	External CT 1 A or 5 A
[In] rated current	5 A 1 A
Rated voltage	100...277 V 173...480 V
Network frequency	60 Hz 50 Hz
Technology type	Electronic
Display type	LCD display
Sampling rate	32 samples/cycle
Measurement current	1...32767000 mA
Maximum value measured	99999999 MWh
Tariff input	Tariff (4)
Communication port protocol	M-bus at 300, 600, 1200, 2400, 4800 and 9600 bauds, insulation 3750 V
Communication port support	Screw terminal block: M-Bus
Typical current consumption	Communication M-bus: 2.3 mA

Local signalling	Green indicator light: power ON Yellow flashing LED: accuracy checking alarm: overload
Number of inputs	1 digital 0...5 V/11...40 V 24 V DC
Number of outputs	1 digital (static)
Output voltage	5...40 V DC@50 mA
Mounting mode	Clip-on
Mounting support	DIN rail
Connections - terminals	Current circuit: screw terminals 6 mm² cable(s) Voltage circuit: screw terminals 2.5 mm² cable(s)
Overvoltage category	III
Standards	IEC 61010 IEC 61557-12 UL 61010-1 IEC 62053-22 IEC 62053-23 IEC 61036
Product certifications	CE conforming to IEC 61010 (safety) CE conforming to EN 61557-12 (power monitor) CE conforming to IEC 61326-1 (EMC) CULus conforming to UL 61010 (safety) CULus conforming to ANSI C12.20 (sub-meter) EAC (sub-meter) RCM conforming to NMI M 6-1 (sub-meter) UL MID conforming to EN 50470-3 (sub-meter) MID conforming to EN 62052 (sub-meter)

Environment

IP degree of protection	IP40 front panel: conforming to IEC 60529 IP20 body: conforming to IEC 60529
Pollution degree	2
Relative humidity	5...95 % at 50 °C
Ambient air temperature for operation	-25...55 °C - IEC
Ambient air temperature for storage	-40...85 °C
Operating altitude	< 2000 m
Colour	White
9 mm pitches	10
Width	90 mm
Height	95 mm
Depth	69 mm

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	373.0 g
Package 1 Height	8 cm
Package 1 width	9.5 cm
Package 1 Length	10.5 cm
Unit Type of Package 2	S03
Number of Units in Package 2	30
Package 2 Weight	11.317 kg

Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P12
Number of Units in Package 3	480
Package 3 Weight	198.096 kg
Package 3 Height	80 cm
Package 3 width	80 cm
Package 3 Length	120 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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