

# Product datasheet

Specifications



## iEM3555 energy meter - Modbus - 1 DI - 1 DO - multi-tariff - Rogowski coil

A9MEM3555

EAN Code: 3606480845246

### Main

Range	Acti9
range of product	Acti9 iEM3000
Product or component type	Energy meter
Device short name	iEM3555
Market segment	Buildings small building cost management: billing: main incomer Buildings small building cost management: billing: sub feeder Buildings small building cost management: billing: panelboard Buildings medium building cost management: billing: main incomer Buildings medium building cost management: billing: sub feeder Buildings medium building cost management: billing: panelboard Buildings large building cost management: billing: main incomer Buildings large building cost management: billing: sub feeder Buildings large building cost management: billing: panelboard Buildings multi-site cost management: billing: main incomer Buildings multi-site cost management: billing: sub feeder Buildings multi-site cost management: billing: panelboard Data center cost management: billing Healthcare cost management: billing Industry cost management: billing Buildings small building cost management: cost allocation: main incomer Buildings small building cost management: cost allocation: sub feeder Buildings small building cost management: cost allocation: panelboard Buildings medium building cost management: cost allocation: main incomer Buildings medium building cost management: cost allocation: sub feeder Buildings medium building cost management: cost allocation: panelboard Buildings large building cost management: cost allocation: main incomer Buildings large building cost management: cost allocation: sub feeder Buildings large building cost management: cost allocation: panelboard Buildings multi-site cost management: cost allocation: main incomer Buildings multi-site cost management: cost allocation: sub feeder Buildings multi-site cost management: cost allocation: panelboard Data center cost management: cost allocation Healthcare cost management: cost allocation Industry cost management: cost allocation

### Complementary

Poles description	3P 3P + N 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	Multi-tariff Partial meter Sub billing
Accuracy class	Class 0.5S active energy conforming to IEC 62053-22 Class 0.5S active energy conforming to ANSI C12.20
input type	Rogowski coil 50...5000 A

<b>Rated voltage</b>	100...277 V +/- 20 % 173...480 V +/- 20 %
<b>Network frequency</b>	50 Hz 60 Hz
<b>Technology type</b>	Electronic
<b>Display type</b>	LCD display
<b>Sampling rate</b>	32 samples/cycle
<b>Measurement current</b>	50...5000 A
<b>Maximum value measured</b>	99999999.9 kWh 99999999 MWh
<b>tariff input</b>	Tariff (4)
<b>Communication port protocol</b>	Modbus RTU at 9.6, 19.2 and 38.4 kbauds even/odd or none
<b>Communication port support</b>	Screw terminal block: RS485
<b>Local signalling</b>	Green indicator light: power ON Yellow flashing LED: accuracy checking alarm: overload Yellow indicator light: communications are active on the Modbus port (Modbus)
<b>Number of inputs</b>	1 digital 0...5 V/11...40 V 24 V DC
<b>Number of outputs</b>	1 digital (static)
<b>Output voltage</b>	5...40 V DC@50 mA
<b>Mounting mode</b>	Clip-on
<b>Mounting support</b>	DIN rail
<b>Connections - terminals</b>	Current circuit: screw terminals 6 mm <sup>2</sup> cable(s) Voltage circuit: screw terminals 2.5 mm <sup>2</sup> cable(s) Input/output circuit: screw terminals 1.5 mm <sup>2</sup> cable(s) Communication: screw terminals 2.5 mm <sup>2</sup> cable(s)
<b>Tightening torque</b>	Input/output circuit: 0.5 N.m Philips screwdriver Voltage circuit: 0.5 N.m Philips screwdriver Current circuit: 0.8 N.m pozidriv screwdriver Communication: 0.5 N.m Philips screwdriver
<b>Wire stripping length</b>	Input/output circuit: 6 mm Voltage circuit: 8 mm Current circuit: 8 mm Communication: 7 mm
<b>Standards</b>	BS EN 61326-1 IEC 61326-1 EN 61326-1 BS EN 61010-1:2010 EN 61010-1:2010 IEC 61010-1:2010 UL 61010-1:2010 BS EN 61010-2-30 IEC 61010-2-30 EN 61010-2-30 UL 61010-2-30 ANSI C12.20
<b>Product certifications</b>	CE conforming to IEC 61010-1 (safety) CE conforming to EN 61557-12 (power monitor) CE conforming to EN/IEC 61326-1 (EMC) UKCA conforming to BS EN 61010-1 (safety) UKCA conforming to BS EN 61557-12 (power monitor) UKCA conforming to BS EN 61326-1 (EMC) CULus conforming to UL 61010-1 (safety) CULus conforming to EN 61010-1 (safety) KZ RCM
<b>Compatibility code</b>	IEM3555

## Environment

IP degree of protection	IP40 front panel: conforming to IEC 60529 IP20 body: conforming to IEC 60529
IK degree of protection	IK08
Pollution degree	2
Relative humidity	5...95 % at 36 °C
Ambient air temperature for operation	-25...70 °C - IEC
Ambient air temperature for storage	-40...85 °C
Operating altitude	< 3000 m
Colour	White
9 mm pitches	10
Width	90 mm
Height	87 mm
Depth	69 mm

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.700 cm
Package 1 Width	9.600 cm
Package 1 Length	10.600 cm
Package 1 Weight	328.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	30
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	10.310 kg
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Height	80.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	100.364 kg

## Logistical informations

Country of origin	CN
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## Contractual warranty

Warranty (in months)	18
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

Total lifecycle Carbon footprint	69 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	13 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.7 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	54 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.7 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
SCIP Number	Eeba4d71-dd5e-4897-8804-de4a2fdb525f
EU RoHS Directive	<a href="#">Compliant By Exemption</a>
REACH Regulation	<a href="#">Reference contains Substances of Very High Concern above the threshold</a>

## Use Longer



### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

Recyclability potential, in %	5
End of life manual availability	<a href="#">End of Life Information</a>
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Technical Illustration

User interface / product ON

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