

# Product datasheet

Specifications



## M8800C energy meter - 5 MB - class A - 1 A input - 50 Hz

M8800C2E0B5A0E0A

### Main

Range	PowerLogic
Device Short Name	ION8800C
Product Or Component Type	Energy and power quality meter

### Complementary

Power Quality Analysis	symmetrical component voltage sag and swell detection programmability (logic and math functions) up to the 63rd harmonic
Device Application	Co-generation and IPP monitoring Energy pulsing and totalisation Load curtailment Contract optimisation Tariff metering Equipment monitoring and control Instrument transformer correction Demand and power factor control Power monitoring
Type Of Measurement	Current Voltage Frequency Apparent power total Power factor total Apparent power per phase Power factor per phase Active power total Active power per phase Reactive power total Reactive power per phase
Supply Voltage	85...240 V AC 47...63 Hz 110...270 V DC
Network Frequency	50 Hz
[In] Rated Current	1 A
Type Of Network	1P + N 3P 3P + N
Power Consumption In Va	19 VA
Maximum Power Consumption In Va	32 VA
Display Type	FSTN transreflective LCD
Sampling Rate	1024 samples/cycle
Measurement Current	0...1 A
Input Type	Current 0.001...10 A (impedance 0.01 Ohm)

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Measurement Voltage	57...288 V AC phase to neutral 99...500 V AC phase to phase
Frequency Measurement Range	47...63 Hz
Number Of Inputs	3 digital 80...280 V AC/DC
Measurement Accuracy	Current 0.1 % Voltage 0.1 % Power 0.2 % Power factor 0.1 % Frequency 0.005 Hz Energy 0.2 %
Accuracy Class	Class 0.2S active energy conforming to IEC 62053-22 Class 0.2S reactive energy conforming to IEC 62053-23
Number Of Outputs	1 alarm output 4 form C solid state output 2 IEC 1107 pulse
Communication Port Protocol	DLMS ION DNP3 Modbus RTU, master/slave at <= 19200 bauds Modbus RTU, master/slave at 300...57600 bauds Modbus RTU, master/slave at 300...115200 bauds IEC 1107 at <= 19200 bauds
Communication Port Support	Screw terminal block: RS485 Infrared DB9: RS485/RS232
Time Synchronisation Protocol	IRIG-B
Data Recording	Data logs Min/max of instantaneous values Historical logs GPS synchronisation Alarms Waveform logs Transient logs Time stamping
Transmission Rate	300...115200 bauds <= 19200 bauds 300...57600 bauds
Memory Capacity	5 MB
Web Services	Web server
Tamperproof Of Settings	Protected by access code
Compatibility Code	ION8800C

## Environment

Electromagnetic Compatibility	Conducted RF disturbances conforming to IEC 61000-4-6 Immunity to impulse waves conforming to IEC 61000-4-12 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 Electrostatic discharge conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields conforming to IEC 61000-4-3 1.2/50 µs shock waves immunity test conforming to IEC 61000-4-5 Conducted and radiated emissions B conforming to CISPR 22
Mounting Mode	Rack-mounted
Enclosure Type	19" rack
Type Of Installation	Indoor installation
Overvoltage Category	III
Ip Degree Of Protection	IP51 conforming to IEC 60529
Relative Humidity	5...95 %
Pollution Degree	2

Ambient Air Temperature For Operation	-10...45 °C
Ambient Air Temperature For Storage	-25...70 °C
Operating Altitude	0...2000 m
Product Certifications	EGR ESKOM GOST NMI
Standards	IEC 62052-11 IEC 60950
Width	202.1 mm
Depth	261.51 mm
Height	132.2 mm
Net Weight	6 kg

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	21.0 cm
Package 1 Width	53.0 cm
Package 1 Length	44.0 cm
Package 1 Weight	7.0 kg

## Contractual warranty

Warranty	18 months
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## Sustainability



**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

## Well-being performance

 Mercury Free	
 Rohs Exemption Information	<a href="#">Yes</a>
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins