Product data sheet

Specifications

M8800A energy meter - 10 MB - class A - 1 A input - 50 Hz

M8800A1E0B5E0A0A

⚠ To be discontinued on: Dec 31, 2024

⚠ To be end-of-service on: Dec 31, 2029

⚠ **To be discontinued**

Main

Range	PowerLogic
Device Short Name	ION8800A
Product Or Component Type	Energy and power quality meter

Complementary

Power Quality Analysis	conforming to IEC 61000-4-15 flicker magnitude harmonic up to the 50th conforming to IEEE 519: 1992 harmonic control conforming to IEEE 1159: 1995 power quality monitoring symmetrical component transient detection (20 μs) voltage sag and swell detection programmablity (logic and math functions) up to the 63rd harmonic conforming to IEC 61000-4-30: class A power quality measurement conforming to EN 50160 compliance report
Device Application	Equipment monitoring and control Load curtailment Contract optimisation Power monitoring Instrument transformer correction Demand and power factor control Energy pulsing and totalisation Co-generation and IPP monitoring Tariff metering
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 + N 3P
Power Consumption In Va	19 VA
Maximum Power Consumption In Va	32 VA

Display Type	FSTN transflective LCD
Sampling Rate	1024 samples/cycle
Measurement Current	0…1 A
Input Type	Current 0.001...10 A (impedance 0.01 Ohm)
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	0
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 8 form A triac output 4 form C solid state output 2 IEC 1107 pulse
Communication Port Protocol	DLMS ION TCP/IP at 10/100 Mbit/s DNP3 Modbus RTU, master/slave at <= 19200 bauds Modbus RTU, master/slave at 300...57600 bauds Modbus RTU, master/slave at 300...115200 bauds Modbus TCP, master/slave at 10/100 Mbit/s IEC 1107 at <= 19200 bauds
Communication Port Support	Screw terminal block: RS485 RJ45: ETHERNET Infrared DB9: RS485/RS232
Data Recording	Min/max of instantaneous values Alarms Waveform logs Time stamping Transient logs Historical logs Data logs GPS synchronisation
Transmission Rate	300...57600 bauds 10/100 Mbit/s 300...115200 bauds <= 19200 bauds
Memory Capacity	10 MB
Web Services	Web server
Tamperproof Of Settings	Protected by access code
Compatibility Code	ION8800A

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

Sustainability

Green Premium^{TM} 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_2 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   Yes

Eu Rohs Directive   Compliant with Exemptions

China Rohs Regulation   China RoHS declaration

Weee   The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins