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



M8800B energy meter - 10 MB - class A - 1 A input - 50 Hz

M8800B1E0B5E0E0C

Main

Range	PowerLogic
Device Short Name	ION8800B
Product Or Component Type	Energy and power quality meter
Complementary	
Power Quality Analysis	conforming to IEC 61000-4-30: class S power quality measurement 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	Tariff metering Demand and power factor control
	Load curtailment
	Instrument transformer correction
	Contract optimisation
	Energy pulsing and totalisation
	Equipment monitoring and control Power monitoring
	Co-generation and IPP 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	85240 V AC 4763 Hz 110270 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

FSTN transflective LCD

Display Type

Sampling Rate	1024 samples/cycle
Measurement Current	01 A
Input Type	Current 0.00110 A (impedance 0.01 Ohm)
Measurement Voltage	57288 V AC phase to neutral 99500 V AC phase to phase
Frequency Measurement Range	4763 Hz
Number Of Inputs	3 digital 80280 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 TCP/IP at 10/100 Mbit/s DNP3 Modbus RTU, master/slave at <= 19200 bauds Modbus RTU, master/slave at 30057600 bauds Modbus RTU, master/slave at 300115200 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
Time Synchronisation Protocol	IRIG-B
Data Recording	GPS synchronisation Historical logs Waveform logs Alarms Min/max of instantaneous values Data logs Time stamping Transient logs
Transmission Rate	300115200 bauds 30057600 bauds <= 19200 bauds 10/100 Mbit/s
Memory Capacity	10 MB
Web Services	Web server
Tamperproof Of Settings	Protected by access code
Compatibility Code	ION8800B
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

19" rack

Enclosure Type

Type Of Installation	Indoor installation
Overvoltage Category	III
Ip Degree Of Protection	IP51 conforming to IEC 60529
Relative Humidity	595 %
Pollution Degree	2
Ambient Air Temperature For Operation	-1045 °C
Ambient Air Temperature For Storage	-2570 °C
Operating Altitude	02000 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

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ 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

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	