

ION8650 meter 64MB, 9S/29S/36S, 120VAC/160VDC 60Hz, Ethernet 1I+5O, RMICAN-seal

M8650B0C0H6E1C4A

- Discontinued on: Apr 1, 2024
- ! To be end-of-service on: Mar 31, 2025

Main	
Range	PowerLogic
Device Short Name	ION8650B
Product Or Component Type	Revenue and power quality meter

conforming to IEC 61000-4-30: class S power quality measurement conforming to IEC 61000-4-15 flicker transient capture
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magnitude harmonic up to the 40th
conforming to EN 50160: ed. 4 compliance report
harmonic distortion
voltage sag and swell detection
programmablity (logic and math functions)
up to the 63rd harmonic
Equipment monitoring and control
Tariff metering
Energy pulsing and totalisation
Instrument transformer correction
Load curtailment
Co-generation and IPP monitoring
Demand and power factor control
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
120277 V AC 4763 Hz
65120 V AC 4763 Hz
80160 V DC
60 Hz
American
2 A
1 A
5 A
3P + N
3P
1P + N

Life Is On Schneider Apr 25, 2024

Maximum Power Consumption In Va	33 VA
Display Type	FSTN transflective LCD
Form Designation	9S 3-element 4 36S 2½-element 4 29S 2½-element 4
Sampling Rate	1024 samples/cycle
Measurement Current	0.00124 A
Input Type	Current 0.0120 A (impedance 0.05 Ohm)
Measurement Voltage	57277 V AC phase to neutral 100480 V AC phase to phase
Number Of Inputs	1 digital 0.001100 mA 30 V DC
Measurement Accuracy	Current 0.1 % Voltage 0.1 % Power 0.1 % Power factor 0.1 % Frequency 0.001 Hz Energy 0.1 %
Accuracy Class	Class 0.2S energy conforming to IEC 62053-23 Class 0.2 energy conforming to ANSI C12.20 Class 0.2S energy conforming to IEC 62053-22
Number Of Outputs	2 pulse 4 form C relay output 1 form A triac output
Communication Port Protocol	DNP3 at 300115200 bauds ION at 300115200 bauds Ansi C12.18 at <= 19200 bauds IEC 61850 ed. 2 at 10/100 Mbit/s TCP/IP at 10/100 Mbit/s DLMS at 300115200 bauds Modbus at 57600 bauds DNP3 at 10/100 Mbit/s ION at 10/100 Mbit/s Modbus RTU, master/slave at 300115200 bauds Modbus TCP, master/slave at 10/100 Mbit/s EtherGate
Communication Port Support	RJ45: ETHERNET SUB-D 9: RS485/RS232 Terminal block: RS485 Infrared
Time Synchronisation Protocol	GPS: Truetime/Datum IRIG-B
Data Recording	Sag and swell logs Event logs Harmonics logs Alarms GPS synchronisation Data logs Time stamping Revenue logs Historical logs
Transmission Rate	10/100 Mbit/s 57600 bauds <= 19200 bauds 300115200 bauds
Memory Capacity	64 MB
Web Services	Web server Port addressing user designed Alarm notification by e-mail Robust security logs

Ethernet Service	Enable/disable serial ports Enable/disable Ethernet protocols SNMP-Traps and SYSLOG	
Tamperproof Of Settings	Protected by sealable cover RMICAN protected	
Compatibility Code	ION8650B	
Environment		
Electromagnetic Compatibility	Electrostatic discharge immunity test conforming to IEC 61000-4-2	

Electromagnetic Compatibility	Electrostatic discharge immunity test conforming to IEC 61000-4-2 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 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	Socket-mounted
Mounting Support	Enclosure door
Type Of Installation	Indoor installation
Overvoltage Category	III
Ip Degree Of Protection	IP65 front face: IP51 back:
Relative Humidity	595 %
Pollution Degree	2
Ambient Air Temperature For Operation	-4085 °C
Ambient Air Temperature For Storage	-4085 °C
Operating Altitude	03000 m
Standards	ANSI C12.1 IEC 62052-11
Width	178 mm
Depth	237 mm
Height	178 mm
Net Weight	7 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	26.0 cm
Package 1 Width	28.0 cm
Package 1 Length	44.0 cm
Package 1 Weight	4.5 kg

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 >





Transparency RoHS/REACh

Well-being performance



Rohs Exemption Information

Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information
California Proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov