

ION8650 meter 128MB, 9S/29S/ 36S, 120VAC/160VDC 60Hz, Full comm 1I+5O

M8650A0C0H6C7C0A

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

Main

Range	PowerLogic	
Device Short Name	ION8650A	
Product Or Component Type	Revenue and power quality meter	

Complementary	
Power Quality Analysis	conforming to IEC 61000-4-15 flicker magnitude harmonic up to the 50th transient capture conforming to EN 50160: ed. 4 compliance report harmonic distortion voltage sag and swell detection waveform capture programmablity (logic and math functions) up to the 63rd harmonic conforming to IEC 61000-4-30: class A power quality measurement
Device Application	Co-generation and IPP monitoring Load curtailment Instrument transformer correction Demand and power factor control Equipment monitoring and control Tariff metering Energy pulsing and totalisation
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 total Active power total Reactive power total Reactive power per phase
Supply Voltage	120277 V AC 4763 Hz 65120 V AC 4763 Hz 80160 V DC
Network Frequency	60 Hz
Outlet Standard	American
[In] Rated Current	5 A 1 A 2 A
Type Of Network	3P + N 3P 1P + N
Power Consumption In Va	24 VA

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 TCP/IP at 30057600 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 ModemGate EtherGate	
Communication Port Support	RJ45: ETHERNET SUB-D 9: RS485/RS232 Terminal block: RS485 Infrared RJ11: modem	
Time Synchronisation Protocol	GPS: Truetime/Datum IRIG-B	
Data Recording	GPS synchronisation Sag and swell logs Data logs Revenue logs Alarms Historical logs Event logs Transient logs Harmonics logs Time stamping	
Transmission Rate	<= 19200 bauds 57600 bauds 30057600 bauds 300115200 bauds 10/100 Mbit/s	
Memory Capacity	128 MB	

Web Services	Web server Robust security logs Port addressing user designed Alarm notification by e-mail	
Ethernet Service	SNMP-Traps and SYSLOG Enable/disable serial ports Enable/disable Ethernet protocols	
Tamperproof Of Settings	Protected by access code	
Compatibility Code	ION8650A	

Environment

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
Circularity Profile	End of Life Information
California Proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov