Specifications



① To be discontinued

ION8650 meter 128MB, FT21 panel, 120VAC/160VDC 50Hz, Full comm No I/O

M8650A4C0H5C7A0A

- () 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
	Demand and power factor control
	Energy pulsing and totalisation
	Load curtailment
	Tariff metering
	Instrument transformer correction
	Equipment monitoring and control
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	120277 V AC 4763 Hz
	120480 V AC 4763 Hz
	65120 V AC 4763 Hz
	80160 V DC
Network Frequency	50 Hz
Outlet Standard	American
[In] Rated Current	5 A
	2 A
	1 A
Type Of Network	1P + N
	3P
	3P + N

Power Consumption In Va	24 VA
Maximum Power Consumption In	33 VA
Va Display Type	FSTN transflective LCD
Form Designation	36S 2½-element 4 9 3-element 4
	35 2-element 3
	29 21/2-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	0
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
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	Harmonics logs
	GPS synchronisation
	Data logs Revenue logs
	Alarms
	Historical logs
	Event logs Transient logs
	Sag and swell logs
	Time stamping
Transmission Rate	30057600 bauds
	57600 bauds
	<= 19200 bauds
	300115200 bauds 10/100 Mbit/s
Memory Capacity	128 MB

Web Services	Web server Alarm notification by e-mail Port addressing user designed Robust security logs
Ethernet Service	Enable/disable Ethernet protocols Enable/disable serial ports SNMP-Traps and SYSLOG
Tamperproof Of Settings	Protected by access code
Provided Equipment	Break out panel
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	Flush-mounted
Enclosure Type	FT21 switchboard
Type Of Installation	Indoor installation
Overvoltage Category	III

Mounting Mode	Flush-mounted	
Enclosure Type	FT21 switchboard	
Type Of Installation	Indoor installation	
Overvoltage Category	III	
Ip Degree Of Protection	IP50 front face: IP30 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	163 mm	
Depth	228 mm	
Height	285 mm	
Net Weight	7 kg	

Packing Units

-	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	29.0 cm
Package 1 Width	29.0 cm
Package 1 Length	41.0 cm
Package 1 Weight	7.0 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 >



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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