Specifications



① To be discontinued

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

M8650A4C0H5E1A0A

- () 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
Tomer Quality Allalysis	•
	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	Energy pulsing and totalisation
	Instrument transformer correction
	Tariff metering
	Load curtailment
	Demand and power factor control
	Equipment monitoring and control
	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	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	2 A
	1 A
	5 A
Type Of Network	3P + N
	3P

Power Consumption In Vo	24.1/4	
Power Consumption In Va	24 VA	
Maximum Power Consumption In Va	0 33 VA	
Display Type	FSTN transflective LCD	
Form Designation	36S 2½-element 4 9 3-element 4 35 2-element 3 29 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	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 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	GPS synchronisation Transient logs Sag and swell logs Data logs Alarms Harmonics logs Time stamping Historical logs Revenue logs Event logs	
Transmission Rate	57600 bauds <= 19200 bauds 10/100 Mbit/s 300115200 bauds	
Memory Capacity	128 MB	
Web Services	Alarm notification by e-mail Robust security logs Web server Port addressing user designed	

Ethernet Service	Enable/disable serial ports Enable/disable Ethernet protocols 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
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 Premium<sup>TM</sup> 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-CO<sub>2</sub> products.

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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