



ION8650 meter 128MB, FT21 cable, 120VAC/160VDC 60Hz, Full comm 3I+4O, password

M8650A7C0H6C7B1A

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

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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	Instrument transformer correction Energy pulsing and totalisation Tariff metering Co-generation and IPP monitoring Equipment monitoring and control Demand and power factor control Load curtailment
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 per phase
Supply Voltage	120277 V AC 4763 Hz 120480 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	1P + N 3P 3P + N

Life Is On Schneider Apr 23, 2024

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 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
3	100480 V AC phase to phase
Number Of Inputs	3 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	Close 0.25 energy conforming to IEC 620E2.22
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	O codes
Number Of Outputs	2 pulse 4 form C relay 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	Event logs
-	Historical logs
	GPS synchronisation
	Sag and swell logs
	Transient logs Time stamping
	Harmonics logs
	Revenue logs
	Alarms Data logs
Transmission Rate	300115200 bauds
a.lonnoolon nate	<= 19200 bauds
	10/100 Mbit/s
	30057600 bauds
	57600 bauds
Memory Capacity	128 MB

Web Services	Port addressing user designed Robust security logs Web server Alarm notification by e-mail
Ethernet Service	Enable/disable Ethernet protocols SNMP-Traps and SYSLOG Enable/disable serial ports
Tamperproof Of Settings	Hardware lock by jumper Protected by access code
Provided Equipment	Break out cable
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 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