Specifications



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

M8650A7C0H5E1A1A

Main

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

Complementary

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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 programmability (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 Tariff metering Load curtailment Equipment monitoring and control Instrument transformer correction Demand and power factor control 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 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	1P + N 3P + N 3P
Power Consumption In Va	24 VA
Maximum Power Consumption In Va	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, slave at 300115200 bauds
	Modbus TCP, slave at 10/100 Mbit/s
	EtherGate
Communication Port Support	RJ45: ETHERNET
	SUB-D 9: RS485/RS232
	Terminal block: RS485
	Infrared
Time Synchronisation Protocol	IRIG-B GPS: Truetime/Datum
Data Recording	GPS synchronisation
	Harmonics logs Revenue logs
	Time stamping
	Historical logs
	Event logs
	Alarms
	Sag and swell logs
	Transient logs
	Data logs
Transmission Rate	10/100 Mbit/s
	300115200 bauds
	57600 bauds <= 19200 bauds
Memory Capacity	128 MB
Web Services	Web server Robust security logs
	Robust security logs
	Port addressing user designed Alarm notification by e-mail
Ethornot Somilas	· · · · · · · · · · · · · · · · · · ·
Ethernet Service	Enable/disable serial ports Enable/disable Ethernet protocols
	SNMP-Traps and SYSLOG

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	111
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