

ION8650 meter 128MB, FT21 cable, 277VAC/300VDC 60Hz, Modem 3I+4O

M8650A7C0J6M1B0A

! Discontinued on: May 6, 2021

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

Complementary

Power Quality Analysis	IEC 61000-4-15 flicker
	magnitude harmonic up to the 50th
	transient capture
	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
	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 total Active power per phase
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	Reactive power total Reactive power per phase
Supply Valtage	400 077.1/4.0 47 00.1/-
Supply Voltage	120277 V AC 4763 Hz
	120480 V AC 4763 Hz
	160277 V AC 4763 Hz
	200300 V DC
Network Frequency	60 Hz
Outlet Standard	American
Line Rated Current	5 A
	2 A
	1 A
Type Of Network	3P
	3P + N
	1P + N
Power Consumption In Va	24 VA

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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	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	Class 0.2S energy IEC 62053-23 Class 0.2 energy ANSI C12.20 Class 0.2S energy IEC 62053-22
Number Of Outputs	2 pulse 4 form C relay output
Communication Port Protocol	DNP3 300115200 bauds ION 300115200 bauds Ansi C12.18 <= 19200 bauds DLMS 300115200 bauds Modbus 57600 bauds TCP/IP 30057600 bauds Modbus RTU, master/slave 300115200 bauds ModemGate
Communication Port Support	SUB-D 9 RS485/RS232 Terminal block RS485 infrared RJ11 modem
Time Synchronisation Protocol	IRIG-B GPS: Truetime/Datum
Data Recording	Data logs Time stamping GPS synchronisation Historical logs Revenue logs Alarms Transient logs Event logs Harmonics logs Sag and swell logs
Transmission Rate	300115200 bauds <= 19200 bauds 30057600 bauds 57600 bauds
Memory Capacity	128 MB
Web Services	Web server Robust security logs Port addressing user designed Alarm notification by e-mail
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 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
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	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:
ip Degree Of 1 Totection	
	IP30 back:
Relative Humidity	595 %
Pollution Degree	2
Ambient Air Temperature For Operation	-40185 °F (-4085 °C)
	
Ambient Air Temperature For Storage	-40185 °F (-4085 °C)
Operating Altitude	09842.52 ft (03000 m)
Standards	ANSI C12.1
	IEC 62052-11
Width	6.42 in (163 mm)
Depth	8.98 in (228 mm)
Height	11.22 in (285 mm)
Net Weight	15.43 lb(US) (7 kg)

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	10.24 in (26.0 cm)
Package 1 Width	11.02 in (28.0 cm)
Package 1 Length	17.32 in (44.0 cm)
Package 1 Weight	9.92 lb(US) (4.5 kg)

Contractual warranty

Warranty 18 months

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

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Eu Rohs Directive	Compliant
	EU RoHS Declaration
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