

ION8650 meter 128MB, 9S/29S/ 36S, 120VAC/160VDC 60Hz, Full comm 3I+4O, password

M8650A0C0H6C7B1A

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
	Comonning to 120 01000 4 00. class // power quality incastrement
Device Application	Tariff metering
	Instrument transformer correction
	Equipment monitoring and control Demand and power factor control
	Energy pulsing and totalisation
	Co-generation and IPP monitoring
	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 per phase
	Reactive power total
	Reactive power per phase
Supply Voltage	120277 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
	ZA
Type Of Network	1P + N
	3P
	3P + N
Power Consumption In Va	24 VA
Maximum Power Consumption In Va	33 VA

Display Type	FSTN transflective LCD
Form Designation	9S 3-element 4
•	36S 21/2-element 4
	29S 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	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 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 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	IRIG-B
	GPS: Truetime/Datum
Data Recording	Alarms
	Transient logs
	Revenue logs
	Event logs Data logs
	Harmonics logs
	Sag and swell logs
	GPS synchronisation
	Time stamping
	Historical logs
Transmission Rate	300115200 bauds
	30057600 bauds
	57600 bauds
	10/100 Mbit/s
	<= 19200 bauds
Memory Capacity	128 MB
Web Services	Port addressing user designed
	Alarm notification by e-mail
	Web server
	Robust security logs

Ethernet Service	Enable/disable serial ports SNMP-Traps and SYSLOG Enable/disable Ethernet protocols
Tamperproof Of Settings	Protected by access code Hardware lock by jumper
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	Socket-mounted	
Mounting Support	Enclosure door	
Type Of Installation	Indoor installation	
Overvoltage Category	III	
Ip Degree Of Protection	IP65 front face: IP51 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	178 mm	
Depth	237 mm	
Height	178 mm	
Net Weight	7 kg	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	26.0 cm
Package 1 Width	28.0 cm
Package 1 Length	44.0 cm
Package 1 Weight	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 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
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information
California Proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov