Product data sheet

Specifications



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

M8650A0C0H6E1B0A

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 flickor
Fower 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	Energy pulsing and totalisation
	Co-generation and IPP monitoring
	Demand and power factor control
	Load curtailment
	Instrument transformer correction
	Equipment monitoring and control
	Tariff metering
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	1 A
	5 A
	2 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	9S 3-element 4 36S 2½-element 4 29S 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 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 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	IRIG-B GPS: Truetime/Datum
Data Recording	Harmonics logs Transient logs Historical logs Data logs Event logs Revenue logs Time stamping Sag and swell logs Alarms GPS synchronisation
Transmission Rate	300115200 bauds 57600 bauds 10/100 Mbit/s <= 19200 bauds
Memory Capacity	128 MB
Web Services	Robust security logs Web server 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

Environme	h nt
	511L

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 >



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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
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