# Product data sheet

Specifications



# ION8650 meter 128MB, 9S/29S/ 36S, 120VAC/160VDC 50Hz, Fiber ST No I/O, password

M8650A0C0H5F1A1A

#### 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
Power Quality Analysis	
	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	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
	65120 V AC 4763 Hz
	80160 V DC
Network Frequency	50 Hz
Outlet Standard	American
[In] Rated Current	1A
	5 A
	2 A
Type Of Network	3P
	1P + N 3P + N
Power Consumption In Va	24 VA
Maximum Power Consumption In	33 VA
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	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 100 Mbit/s TCP/IP at 100 Mbit/s DLMS at 300115200 bauds Modbus at 57600 bauds DNP3 at 100 Mbit/s ION at 100 Mbit/s ION at 100 Mbit/s Modbus RTU, slave at 300115200 bauds Modbus TCP, slave at 100 Mbit/s EtherGate
Communication Port Support	ST: 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	100 Mbit/s 300115200 bauds 57600 bauds <= 19200 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	Hardware lock by jumper Protected by access code

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

### Sustainability

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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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