Product data sheet

Specifications



① Discontinued

ION8650 meter 128MB, 35S, 277VAC 50Hz, standard 3I+4O

M8650A1C0E5A0B0A

() Discontinued on: Jan 11, 2021

Main

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

Complementary

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
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
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
120277 V AC 4763 Hz
120480 V AC 4763 Hz
50 Hz
5 A
1 A
2 A
3P
3P + N
1P + N
24 VA
33 VA

Form Designation	35S 2-element 3
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
	DLMS at 300115200 bauds
	Modbus at 57600 bauds
	Modbus RTU, master/slave at 300115200 bauds
Communication Port Support	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	300115200 bauds <= 19200 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 corial parts
	Enable/disable serial ports Enable/disable Ethernet protocols
	SNMP-Traps and SYSLOG
Tamperproof Of Settings	Protected by access code
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

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