Product data sheet

Specifications

ION8650 meter 32MB, FT21 cable, 120VAC/160VDC 50Hz, standard 3I+4O

M8650C7C0H5A0B0A

⊘ Discontinued on: Jan 11, 2021

⊘ **Discontinued**

Main

Range	PowerLogic
Device Short Name	ION8650C
Product Or Component Type	Revenue and power quality meter

Complementary

Power Quality Analysis	up to the 31st harmonic harmonic distortion voltage sag and swell detection programmablity (logic and math functions)
Device Application	Demand and power factor control Load curtailment Instrument transformer correction Equipment monitoring and control Energy pulsing and totalisation Co-generation and IPP monitoring 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	120...277 V AC 47...63 Hz 120...480 V AC 47...63 Hz 65...120 V AC 47...63 Hz 80...160 V DC
Network Frequency	50 Hz
Outlet Standard	American
[In] Rated Current	5 A 2 A 1 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	36S 2½-element 4
	9 3-element 4
	35 2-element 3
	29 2½-element 4

Sampling Rate	1024 samples/cycle

Measurement Current	0.001…24 A

Input Type	Current 0.01...20 A (impedance 0.05 Ohm)

Measurement Voltage	57…277 V AC phase to neutral
	100…480 V AC phase to phase

Number Of Inputs	3 digital 0.001...100 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 300...115200 bauds
	ION at 300...115200 bauds
	Ansi C12.18 at <= 19200 bauds
	DLMS at 300...115200 bauds
	Modbus at 57600 bauds
	Modbus RTU, slave at 300...115200 bauds

Communication Port Support	SUB-D 9: RS485/RS232
	Terminal block: RS485
	Infrared

Time Synchronisation Protocol	GPS: Truetime/Datum
	IRIG-B

Data Recording	Time stamping
	Sag and swell logs
	Data logs
	GPS synchronisation
	Event logs
	Alarms
	Historical logs
	Harmonics logs
	Revenue logs

Transmission Rate	300...115200 bauds
	57600 bauds
	<= 19200 bauds

Memory Capacity	32 MB

Web Services	Port addressing user designed
	Web server
	Alarm notification by e-mail
	Robust security logs

Ethernet Service	SNMP-Traps and SYSLOG
	Enable/disable Ethernet protocols
	Enable/disable serial ports

Tamperproof Of Settings	Protected by access code

Provided Equipment	Break out cable

Compatibility Code	ION8650C

Environment

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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	Flush-mounted
Enclosure Type	FT21 switchboard
Type Of Installation	Indoor installation
Overvoltage Category	III
Ip Degree Of Protection	IP50 front face: IP30 back:
Relative Humidity	5…95 %
Pollution Degree	2
Ambient Air Temperature For Operation	-40…85 °C
Ambient Air Temperature For Storage	-40…85 °C
Operating Altitude	0...3000 m
Standards	ANSI C12.1 IEC 62052-11
Width	163 mm
Depth	228 mm
Height	285 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^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 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

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