

# ION8650 meter 32MB, FT21 cable, 120VAC/160VDC 60Hz, Ethernet 3I+4O

M8650C7C0H6E1B0A

## 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	Load curtailment Energy pulsing and totalisation Co-generation and IPP monitoring Equipment monitoring and control Instrument transformer correction Demand and power factor 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 120480 V AC 4763 Hz 65120 V AC 4763 Hz 80160 V DC	
Network Frequency	60 Hz	
Outlet Standard	American	
[In] Rated Current	1 A 2 A 5 A	
Type Of Network	3P + N 1P + N 3P	
Power Consumption In Va	24 VA	
Maximum Power Consumption In Va	33 VA	

FSTN transflective LCD

Display Type

Form Designation	36S 21/2-element 4	
	9 3-element 4	
	35 2-element 3	
	29 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, slave at 300115200 bauds	
	Modbus TCP, 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	
	or o. madamorbatam	
Data Recording	Alarms	
	Harmonics logs Time stamping	
	Sag and swell logs	
	GPS synchronisation	
	Event logs	
	Historical logs	
	Revenue logs Data logs	
Transmission Rate		
กลกอกกออกปี กลเย	10/100 Mbit/s 300115200 bauds	
	57600 bauds	
	<= 19200 bauds	
Memory Capacity	32 MB	
Web Services	Robust security logs	
	Port addressing user designed	
	Web server	
	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	
Provided Equipment	Break out cable	

Compatibility Code	ION8650C	

## **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	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	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	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	29.0 cm
Package 1 Width	29.0 cm
Package 1 Length	41.0 cm
Package 1 Weight	7.0 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.

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
Circularity Profile	End of Life Information
California Proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov