

ION8650 meter 64MB, FT21 panel, 120VAC/160VDC 60Hz, Ethernet 3I+4O

M8650B4C0H6E1B0A

Main

Range	PowerLogic
Device Short Name	ION8650B
Product Or Component Type	Revenue and power quality meter
Complementary	
Power Quality Analysis	conforming to IEC 61000-4-30: class S power quality measurement conforming to IEC 61000-4-15 flicker transient capture magnitude harmonic up to the 40th conforming to EN 50160: ed. 4 compliance report harmonic distortion voltage sag and swell detection
	programmablity (logic and math functions) up to the 63rd harmonic
Device Application	Demand and power factor control Energy pulsing and totalisation Co-generation and IPP monitoring Instrument transformer correction Load curtailment Tariff metering Equipment monitoring and control
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	5 A 2 A 1 A
Type Of Network	1P + N 3P 3P + N
Power Consumption In Va	24 VA
Maximum Power Consumption In	33 VA

Display Type	FSTN transflective LCD
Form Designation	36S 2½-element 4
	9 3-element 4
	35 2-element 3
	29 21/2-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
	Line Gate
Communication Port Support	RJ45: ETHERNET
	SUB-D 9: RS485/RS232 Terminal block: RS485
	Infrared
Time Synchronisation Protocol	IRIG-B
	GPS: Truetime/Datum
Data Recording	Revenue logs
	Alarms
	Event logs Historical logs
	Time stamping
	Data logs
	Sag and swell logs
	Harmonics logs
	GPS synchronisation
Transmission Rate	10/100 Mbit/s
	300115200 bauds
	57600 bauds <= 19200 bauds
Memory Capacity	64 MB
Web Services	
AACH GELAICER	Robust security logs Alarm notification by e-mail
	Port addressing user designed
	Web server
Ethernet Service	Enable/disable serial ports
	SNMP-Traps and SYSLOG
	Enable/disable Ethernet protocols
Tamperproof Of Settings	Protected by access code

Provided Equipment	Break out panel
Compatibility Code	ION8650B

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 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 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