Product data sheet

Specifications

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

S8650B4C0H6C7B0A

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 19,499.26 USD

Main

Range	PowerLogic
Product Name	PowerLogic ION8650
Device Short Name	ION8650B
Product Or Component Type	Revenue and power quality meter

Complementary

Power Quality Analysis	harmonic distortion programmablity (logic and math functions) voltage sag and swell detection up to the 63rd harmonic IEC 61000-4-15 flicker transient capture EN 50160 compliance report IEC 61000-4-30 class S power quality measurement magnitude harmonic up to the 40th EN 50160 ed. 4 power quality monitoring
Device Application	Load curtailment Demand and power factor control Equipment monitoring and control Instrument transformer correction Tariff metering Energy pulsing and totalisation Co-generation and IPP monitoring
Type Of Measurement	Power factor total Power factor per phase Apparent power total Apparent power per phase Active power total Active power per phase Reactive power total Reactive power per phase Current Voltage Frequency
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	60 Hz
Outlet Standard	American
Line Rated Current	2 A 5 A 1 A

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Poles Description	3P + N 3P 1P + N
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 IEC 62053-22 Class 0.2S energy IEC 62053-23 Class 0.2 energy ANSI C12.20
Number Of Outputs	2 pulse 4 form C relay output
Communication Port Protocol	TCP/IP 10/100 Mbit/s DNP3 300...115200 bauds ION 300...115200 bauds DLMS 300...115200 bauds Modbus 57600 bauds Ansi C12.18 <= 19200 bauds DNP3 10/100 Mbit/s ION 10/100 Mbit/s IEC 61850 ed. 2 10/100 Mbit/s TCP/IP 300...57600 bauds Modbus RTU, master/slave 300...115200 bauds Modbus TCP, master/slave 10/100 Mbit/s EtherGate ModemGate
Communication Port Support	RJ11 modem RJ45 ETHERNET SUB-D 9 RS485/RS232 infrared Terminal block RS485
Time Synchronisation Protocol	IRIG-B GPS: Truetime/Datum
Data Recording	GPS synchronisation Time stamping Alarms Harmonics logs Historical logs Sag and swell logs Event logs Revenue logs Data logs
Transmission Rate	10/100 Mbit/s 57600 bauds 300...115200 bauds <= 19200 bauds 300...57600 bauds

Memory Capacity	64 MB
Web Services	Web server Port addressing user designed Alarm notification by e-mail Robust security logs
Ethernet Service	SNMP-Traps and SYSLOG Enable/disable serial ports 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 Susceptibility to electromagnetic fields conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test conforming to IEC 61000-4-5 Conducted and radiated emissions B conforming to CISPR 22 Conducted RF disturbances conforming to IEC 61000-4-6 Immunity to impulse waves conforming to IEC 61000-4-12
Mounting Mode	Flush-mounted
Enclosure Type	FT21 switchboard
Type Of Installation	Indoor installation
Overvoltage Category	III
Ip Degree Of Protection	IP30 back: IP50 front face:
Relative Humidity	5…95 %
Pollution Degree	2
Ambient Air Temperature For Operation	-40…185 °F (-40…85 °C)
Ambient Air Temperature For Storage	-40…185 °F (-40…85 °C)
Operating Altitude	0...9842.52 ft (0...3000 m)
Standards	ANSI C12.1 IEC 62052-11
Width	6.42 in (163 mm)
Depth	8.98 in (228 mm)
Height	11.22 in (285 mm)
Net Weight	15.43 lb(US) (7 kg)

Ordering and shipping details

Category	US1PM1S09759
Discount Schedule	PM1S
Returnability	No
Country Of Origin	CA

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	11.42 in (29.0 cm)

Package 1 Width	11.42 in (29.0 cm)
Package 1 Length	16.14 in (41.0 cm)
Package 1 Weight	15.43 lb(US) (7.0 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ 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 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