

# S8650B0C0H6C7B0A

ION8650 meter 64MB, 9S/29S/36S,  
120VAC/160VDC 60Hz, Full comm 3I+4O



by Schneider Electric



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

## Main

Range	PowerLogic
Range of product	PowerLogic
Product name	PowerLogic ION8650
Device short name	ION8650B
Product or component type	Energy and power quality meter
Market segment	Utility

## Complementary

Power quality analysis	IEC 61000-4-30: class S power quality measurement Harmonic distortion Programmability (logic and math functions) Voltage sag and swell detection EN 50160 compliance report Up to the 63rd harmonic IEC 61000-4-15 flicker Transient capture Magnitude harmonic up to the 40th EN 50160 : ed. 4 power quality monitoring
Device application	Tariff metering Co-generation and IPP monitoring Demand and power factor control Load curtailment Equipment monitoring and control Energy pulsing and totalisation Instrument transformer correction
Type of measurement	Apparent power total Apparent power per phase Active power total Active power per phase Reactive power total Reactive power per phase Voltage Current Frequency Power factor total Power factor per phase
[Us] rated supply voltage	120...277 V AC 47...63 Hz 80...160 V DC 65...120 V AC 47...63 Hz
Network frequency	60 Hz
Outlet standard	American
Line Rated Current	1 A 2 A 5 A
Poles description	1P + N 3P 3P + N
Power consumption in VA	24 VA <= 33 VA
Display type	FSTN transfective LCD
Form designation	9S 3-element 4-wire 36S 2½-element 4-wire 29S 2½-element 4-wire
Sampling rate	1024 samples/cycle
Measurement current	0.001...24 A
Analogue input type	Current 0.01...20 A 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	0.1 % current 0.1 % voltage 0.1 % power 0.1 % power factor 0.001 Hz frequency 0.1 % energy
Accuracy class	Class 0.2S energy conforming to IEC 62053-22 Class 0.2S energy conforming to IEC 62053-23 Class 0.2 energy conforming to ANSI C12.20
Number of outputs	2 pulse 4 form C relay output
Communication port protocol	DNP3: 300...115200 bauds, ION: 300...115200 bauds, Ansi C12.18: <= 19200 bauds, TCP/IP : 10/100 Mbit/s, IEC 61850 ed. 2 : 10/100 Mbit/s, DLMS : 300...115200 bauds, Modbus : 57600 bauds, TCP/IP : 300...57600 bauds, DNP3 : 10/100 Mbit/s, ION : 10/100 Mbit/s, Modbus RTU master/slave : 300...115200 bauds, Modbus TCP master/slave : 10/100 Mbit/s, ModemGate EtherGate
Communication port support	Ethernet RJ45 Modem RJ11 Infrared RS485 terminal block RS485/RS232 SUB-D 9
Time synchronisation protocol	IRIG-B GPS: Truetime/Datum
Data recording	Alarms Data logs Event logs Time stamping GPS synchronisation Revenue logs Historical logs Harmonics logs Sag and swell logs
Transmission rate	10/100 Mbit/s 300...57600 bauds 57600 bauds 300...115200 bauds <= 19200 bauds
Memory capacity	64 MB
Web services	Alarm notification by e-mail Web server Port addressing user designed Robust security logs
Ethernet service	SNMP-Traps and SYSLOG Enable/Disable serial ports Enable/Disable Ethernet protocols
Tamperproof of settings	Protected by access code
Compatibility code	ION8650B

## Environment

Electromagnetic compatibility	<ul style="list-style-type: none"><li>• electrostatic discharge immunity test, conforming to IEC 61000-4-2</li><li>• susceptibility to electromagnetic fields, conforming to IEC 61000-4-3</li><li>• electrical fast transient/burst immunity test, conforming to IEC 61000-4-4</li><li>• 1.2/50 µs shock waves immunity test, conforming to IEC 61000-4-5</li><li>• conducted RF disturbances, conforming to IEC 61000-4-6</li><li>• immunity to impulse waves, conforming to IEC 61000-4-12</li><li>• conducted and radiated emissions class B, conforming to CISPR 22</li></ul>
Mounting mode	Socket-mounted
Mounting support	Enclosure door
Type of installation	Indoor installation
Overvoltage category	III
IP degree of protection	IP51 back IP65 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	7.01 in (178 mm)
Depth	9.33 in (237 mm)
Height	7.01 in (178 mm)
Product weight	15.43 lb(US) (7 kg)

## Ordering and shipping details

Category	09758 - POWERLOGIC ION 8650 HARDWARE
Discount Schedule	PM1S
Nbr. of units in pkg.	1
Package weight(Lbs)	8
Returnability	Y

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant <a href="#">Schneider Electric Declaration Of Conformity</a>
REACH	Reference contains SVHC above the threshold <a href="#">Go to CaP for more details</a>
Product environmental profile	Available
Product end of life instructions	Available
California proposition 65	WARNING: Cancer and Reproductive Harm - <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

Product Life Status : **Commercialised**