Product data sheet

Specifications



ION8650 meter 32MB, 9S/29S/ 36S, 277VAC 60Hz, Ethernet 3I+4O [TAA, BAA, BABA]

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

Main

Range	PowerLogic
Product name	PowerLogic ION8650
Device short name	ION8650C
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 31st harmonic
Device Application	Instrument transformer correction Tariff metering Equipment monitoring and control Energy pulsing and totalisation Demand and power factor control Load curtailment 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
Network Frequency	60 Hz
Line Rated Current	5 A 2 A 1 A
Poles description	3P + N 1P + N 3P
Power consumption in VA	24 VA
Maximum power consumption in VA	33 VA
Display Type	FSTN transflective LCD
Form designation	9S 3-element 4 36S 2½-element 4 29S 2½-element 4
Sampling rate	1024 samples/cycle
Measurement current	0.001…24 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

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 EtherGate Modbus RTU, slave 300...115200 bauds Modbus TCP, slave 10/100 Mbit/s
Communication port support	RJ45 ETHERNET SUB-D 9 RS485/RS232 infrared Terminal block RS485
Time synchronisation protocol	GPS: Truetime/Datum IRIG-B
Data recording	Alarms Harmonics logs Time stamping Data logs Historical logs Revenue logs Event logs GPS synchronisation Sag and swell logs
Transmission Rate	<= 19200 bauds 10/100 Mbit/s 300...115200 bauds 57600 bauds
Memory capacity	32 MB
Web services	Alarm notification by e-mail Port addressing user designed Web server Robust security logs
Ethernet service	SNMP-Traps and SYSLOG Enable/disable Ethernet protocols Enable/disable serial ports
Tamperproof of settings	Protected by access code
Compatibility code	ION8650C

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	Socket-mounted
Mounting support	Enclosure door
Type of Installation	Indoor installation
Overvoltage category	III
IP degree of protection	IP65 front face: IP51 back:
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	7.008 in (178 mm)
Depth	9.3 in (237 mm)
Height	7.008 in (178 mm)
Net Weight	15.4 lb(US) (7 kg)

Ordering and shipping details

Category	US1PM1S09749
Discount Schedule	PM1S
GTIN	3606487732013
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	10.2 in (26.0 cm)
Package 1 Width	11.02 in (28.0 cm)
Package 1 Length	17.3 in (44.0 cm)
Package weight(Lbs)	9.9 lb(US) (4.5 kg)

Compliance

Compliance	TAA Compliant BAA Compliant BABA Compliant BAA Compliant via COTS

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**391 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**74 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**20 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.6 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**291 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**6 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**No**
Packaging without single use plastic	**No**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Free of Substances of Very High Concern above the threshold**

Use Again

Repack and remanufacture

Recyclability potential, in %	**16**
Circularity Profile	**End of Life Information**
Take-back	**No**