

Product data sheet

Characteristics

S8650B7C0H6E1A1A

ION8650 meter 64MB, FT21 cable,
120VAC/160VDC 60Hz, Ethernet No I/O,
password

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



Price* : 10,185.00 USD



Main

Range	PowerLogic
Product name	PowerLogic ION8650
Device short name	ION8650B
Product or component type	Energy and power quality meter

Complementary

Power quality analysis	harmonic distortion programmability (logic and math functions) voltage sag and swell detection up to the 63rd harmonic conforming to IEC 61000-4-15 flicker transient capture conforming to EN 50160 compliance report IEC 61000-4-30 class S power quality measurement magnitude harmonic up to the 40th conforming to EN 50160: ed. 4 power quality monitoring
Device application	Instrument transformer correction Energy pulsing and totalisation Demand and power factor control Tariff metering Co-generation and IPP monitoring Load curtailment Equipment monitoring and control
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

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

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	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 1 A 5 A
Poles description	3P + N 3P 1P + N
Power consumption in VA	24 VA
Maximum power consumption in VA	33 VA
Display type	FSTN transfective 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 0.05 Ohm)
Measurement voltage	57...277 V AC phase to neutral 100...480 V AC phase to phase
Number of inputs	0
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
Communication port protocol	TCP/IP at 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 Modbus RTU, master/slave at 300...115200 bauds Modbus TCP, master/slave at 10/100 Mbit/s EtherGate
Communication port support	RJ45 Ethernet SUB-D 9: RS485/RS232 Infrared Terminal block RS485
Time synchronisation protocol	GPS: Truetime/Datum IRIG-B
Data recording	Revenue logs Historical logs Alarms GPS synchronisation Data logs Sag and swell logs Event logs Harmonics logs Time stamping

Transmission rate	10/100 Mbit/s <= 19200 bauds 57600 bauds 300...115200 bauds
Memory capacity	64 MB
Web services	Alarm notification by e-mail Port addressing user designed Web server Robust security logs
Ethernet service	Enable/disable Ethernet protocols SNMP-Traps and SYSLOG Enable/disable serial ports
Tamperproof of settings	Hardware lock by jumper Protected by access code
Provided equipment	Break out cable
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 IEC 61000-4-6 Immunity to impulse waves 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: Front face IP50
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	09759 - POWERLOGIC ION 8650B HARDWARE
Discount Schedule	PM1S
Nbr. of units in pkg.	1
Package weight(Lbs)	1 lb(US) (0.45 kg)
Returnability	No

Packing Units

Package 1 Height	11.42 in (29.000 cm)
Package 1 width	11.42 in (29.000 cm)
Package 1 Length	16.14 in (41.000 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
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California proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Dimensions

