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

SQUARE D





PowerLogic

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

S8650B0C0H6C7B0A

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

Price*: 15,383.51 USD

Main Range

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
	Energy pulsing and totalisation
	Equipment monitoring and control
	Co-generation and IPP monitoring
	Instrument transformer correction
	Tariff metering
	Demand and power factor 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
	Reactive power per phase
	Current
	Voltage
	Frequency
Supply Voltage	120277 V AC 4763 Hz
	65120 V AC 4763 Hz
	80160 V DC
Network Frequency	60 Hz
Outlet Standard	American
Line Rated Current	1 A
	5 A
	2 A
Poles Description	1P + N
	3P
	3P + N

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

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	0.00124 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 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 300115200 bauds ION 300115200 bauds DLMS 300115200 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 30057600 bauds Modbus RTU, master/slave 300115200 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 Alarms Time stamping Harmonics logs Revenue logs Sag and swell logs Data logs Event logs Historical logs
Transmission Rate	57600 bauds 300115200 bauds <= 19200 bauds 30057600 bauds 10/100 Mbit/s
Memory Capacity	64 MB

Web Services	Robust security logs Alarm notification by e-mail Web server Port addressing user designed
Ethernet Service	Enable/disable serial ports SNMP-Traps and SYSLOG Enable/disable Ethernet protocols
Tamperproof Of Settings	Protected by access code
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	Socket-mounted 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	595 %	
Pollution Degree	2	
Ambient Air Temperature For Operation	-40185 °F (-4085 °C)	
Ambient Air Temperature For Storage	-40185 °F (-4085 °C)	
Operating Altitude	09842.52 ft (03000 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)	
Net Weight	15.43 lb(US) (7 kg)	

Ordering and shipping details

Category	US1PM1S09759	
Discount Schedule	PM1S	
Returnability	Yes	
Country Of Origin	MX	

Packing Units

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	10.24 in (26.0 cm)	
Package 1 Width	11.02 in (28.0 cm)	
Package 1 Length	17.32 in (44.0 cm)	

Package 1 Weight

9.92 lb(US) (4.5 kg)

Contractual warranty

Warranty

18 months



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Transparency RoHS/REACh

Well-being performance



Rohs Exemption Information

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