

Product data sheet

Characteristics

S8650A4C0H6C7B0A

ION8650 meter 128MB, FT21 panel,
120VAC/160VDC 60Hz, Full comm 3I+4O

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

SQUARE D



Price* : 15,001.00 USD



Main

Range	PowerLogic
Product name	PowerLogic ION8650
Device short name	ION8650A
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 - waveform capture - up to the 63rd harmonic - conforming to IEC 61000-4-30: class A power quality measurement - conforming to IEC 61000-4-15 flicker - magnitude harmonic up to the 50th - transient capture - conforming to EN 50160 compliance report
Device application	- Demand and power factor control - Co-generation and IPP monitoring - Equipment monitoring and control - Load curtailment - Tariff metering - Instrument transformer correction - Energy pulsing and totalisation
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

* 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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	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	5 A 1 A 2 A
Poles description	3P + N 1P + N 3P
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	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 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 TCP/IP 300...57600 bauds Modbus RTU, master/slave at 300...115200 bauds Modbus TCP, master/slave at 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	Harmonics logs Alarms Event logs GPS synchronisation Data logs Transient logs Time stamping Revenue logs

	Historical logs Sag and swell logs
Transmission rate	10/100 Mbit/s 300...57600 bauds <= 19200 bauds 300...115200 bauds 57600 bauds
Memory capacity	128 MB
Web services	Port addressing user designed Robust security logs Web server Alarm notification by e-mail
Ethernet service	Enable/disable serial ports SNMP-Traps and SYSLOG Enable/disable Ethernet protocols
Tamperproof of settings	Protected by access code
Provided equipment	Break out panel
Compatibility code	ION8650A

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 μ s 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	09758 - POWERLOGIC ION 8650A HARDWARE
Discount Schedule	PM1S
Nbr. of units in pkg.	1
Package weight(Lbs)	1 lb(US) (0.45 kg)
Returnability	Yes

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
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
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions

