

Product data sheet

Specifications



ION8650 meter 128MB,
9S/29S/36S, 277VAC 60Hz, Full
comm No I/O

S8650A0C0E6C7A0A

Product availability : Stock - Normally stocked in distribution facility

Price* : 18,201.64 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	IEC 61000-4-15 flicker magnitude harmonic up to the 50th transient capture EN 50160 ed. 4 compliance report harmonic distortion voltage sag and swell detection waveform capture programmability (logic and math functions) up to the 63rd harmonic IEC 61000-4-30 class A power quality measurement
Device Application	Co-generation and IPP monitoring Tariff metering Load curtailment Equipment monitoring and control Instrument transformer correction Demand and power factor control Energy pulsing and totalisation
Type of measurement	Current Voltage Frequency Apparent power total Power factor total Apparent power per phase Power factor per phase Active power total Active power per phase Reactive power total Reactive power per phase
Supply voltage	120...277 V AC 47...63 Hz 120...480 V AC 47...63 Hz
Network Frequency	60 Hz
Line Rated Current	5 A 1 A 2 A
Poles description	3P 3P + N 1P + N
Power consumption in VA	24 VA

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

Maximum power consumption in VA	33 VA
Display Type	FSTN transfective 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
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 62053-23 Class 0.2 energy ANSI C12.20 Class 0.2S energy IEC 62053-22
Number of Outputs	2 pulse
Communication port protocol	DNP3 300...115200 bauds ION 300...115200 bauds Ansi C12.18 <= 19200 bauds IEC 61850 ed. 2 10/100 Mbit/s TCP/IP 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 ModemGate Modbus RTU, slave 300...115200 bauds Modbus TCP, slave 10/100 Mbit/s EtherGate
Communication port support	RJ45 Ethernet SUB-D 9 RS485/RS232 Terminal block RS485 infrared RJ11 modem
Time synchronisation protocol	GPS: Truetime/Datum IRIG-B
Data recording	GPS synchronisation Harmonics logs Revenue logs Time stamping Historical logs Event logs Alarms Sag and swell logs Transient logs Data logs
Transmission Rate	10/100 Mbit/s 300...57600 bauds <= 19200 bauds 57600 bauds 300...115200 bauds
Memory capacity	128 MB
Web services	Web server Robust security logs Port addressing user designed Alarm notification by e-mail
Ethernet service	Enable/disable serial ports Enable/disable Ethernet protocols SNMP-Traps and SYSLOG
Tamperproof of settings	Protected by access code
Compatibility code	ION8650A

Environment

Electromagnetic compatibility	Electrostatic discharge immunity test IEC 61000-4-2 Conducted RF disturbances IEC 61000-4-6 Immunity to impulse waves IEC 61000-4-12 Electrical fast transient/burst immunity test IEC 61000-4-4 Susceptibility to electromagnetic fields IEC 61000-4-3 1.2/50 µs shock waves immunity test IEC 61000-4-5 Conducted and radiated emissionsB CISPR 22
Mounting Mode	Socket-mounted
Mounting support	Enclosure door
Type of Installation	Indoor installation
Overvoltage category	III
IP degree of protection	Front face IP65 Back IP51
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)
Net Weight	15.43 lb(US) (7 kg)

Ordering and shipping details

Category	09758-POWERLOGIC ION 8650A HARDWARE
Discount Schedule	PM1S
Number of Units in Package 1	1
Package 1 Weight	9.92 lb(US) (4.5 kg)
Returnability	No

Packing Units

Unit Type of Package 1	PCE
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)

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

