Product data sheet

Specifications

ION8650 meter 128MB, FT21 panel, 277VAC 60Hz, Full comm 3I+4O, password

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Discontinued on: Jul 12, 2021

Discontinued

Main

Range	PowerLogic
Product Name	PowerLogic ION8650
Device Short Name	ION8650A
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 waveform capture up to the 63rd harmonic IEC 61000-4-30 class A power quality measurement IEC 61000-4-15 flicker magnitude harmonic up to the 50th transient capture EN 50160 compliance report
Device Application	Co-generation and IPP monitoring Energy pulsing and totalisation Equipment monitoring and control Tariff metering Load curtailment Demand and power factor control Instrument transformer correction
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 120...480 V AC 47...63 Hz
Network Frequency	60 Hz
Line Rated Current	5 A 2 A 1 A
Poles Description	1P + N 3P 3P + N
Power Consumption In Va	24 VA
Maximum Power Consumption In Va	33 VA

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

Display Type	FSTN transflective 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 (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 TCP/IP 300...57600 bauds Modbus RTU, master/slave 300...115200 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	Historical logs Data logs Time stamping Harmonics logs Transient logs Alarms Event logs GPS synchronisation Revenue logs Sag and swell logs
Transmission Rate	10/100 Mbit/s 300...115200 bauds 300...57600 bauds 57600 bauds <= 19200 bauds
Memory Capacity	128 MB
Web Services	Robust security logs Port addressing user designed Alarm notification by e-mail Web server

Ethernet Service	Enable/disable serial ports SNMP-Traps and SYSLOG Enable/disable Ethernet protocols
Tamperproof Of Settings	Protected by access code Hardware lock by jumper
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 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	Flush-mounted
Enclosure Type	FT21 switchboard
Type Of Installation	Indoor installation
Overvoltage Category	III
Ip Degree Of Protection	IP30 back: IP50 front face:
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
Returnability	No

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	11.42 in (29 cm)
Package 1 Width	11.42 in (29 cm)
Package 1 Length	16.14 in (41 cm)
Package 1 Weight	15.43 lb(US) (7 kg)

Contractual warranty

Warranty	18 months

Sustainability

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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

Rohs Exemption Information	Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California Proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov