Product data sheet Characteristics

S8650B4C0H6E1A0A

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





Main

Range	PowerLogic
Product name	PowerLogic ION8650
Device short name	ION8650B
Product or Component Type	Energy and power quality meter

Complementary

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	Demand and power factor control Load curtailment Tariff metering Energy pulsing and totalisation Instrument transformer correction Equipment monitoring and control Co-generation and IPP monitoring
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 total Reactive power per phase Current Voltage Frequency
Supply voltage	120277 V AC 4763 Hz 120480 V AC 4763 Hz 65120 V AC 4763 Hz 80160 V DC
Network Frequency	60 Hz
Outlet standard	American
Line Rated Current	1 A 2 A 5 A
Poles description	3P 3P + N 1P + N
Power consumption in VA	24 VA
Maximum power consumption in VA	33 VA
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	0.00124 A
Input type	Current 0.0120 A 0.05 Ohm)
Measurement voltage	57277 V AC phase to neutral 100480 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 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 Modbus RTU, master/slave 300115200 bauds Modbus TCP, master/slave 10/100 Mbit/s EtherGate
Communication port support	RJ45 ETHERNET SUB-D 9 RS485/RS232 Infrared Terminal block RS485
Time synchronisation protocol	IRIG-B GPS: Truetime/Datum
Data recording	Historical logs Harmonics logs Revenue logs Sag and swell logs GPS synchronisation Data logs Time stamping Alarms Event logs
Transmission Rate	57600 bauds 300115200 bauds <= 19200 bauds 10/100 Mbit/s
Memory capacity	64 MB
Web services	Robust security logs Web server Alarm notification by e-mail Port addressing user designed
Ethernet service	SNMP-Traps and SYSLOG Enable/Disable serial ports Enable/disable Ethernet protocols
Tamperproof of settings	Protected by access code
Provided Equipment	Break out panel
Compatibility code	ION8650B

Environment

Electromagnetic compatibility	Electrostatic discharge immunity test IEC 61000-4-2 Susceptibility to electromagnetic fields IEC 61000-4-3 Electrical fast transient/burst immunity test IEC 61000-4-4 1.2/50 µs shock waves immunity test IEC 61000-4-5 Conducted and radiated emissionsB 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	Back IP30 Front face IP50
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	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
Returnability	Yes
Country of origin	CA

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.42 in (29.0 cm)
Package 1 Width	11.42 in (29.0 cm)
Package 1 Length	16.14 in (41.0 cm)
Package 1 Weight	15.43 lb(US) (7.0 kg)

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 EEU 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.