Product data sheet Characteristics

S8650A4C0H6E1B0A

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



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 Programmablity (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	Instrument transformer correction Energy pulsing and totalisation Demand and power factor control Tariff metering Equipment monitoring and control Load curtailment 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	5 A 1 A 2 A
Poles description	1P + N 3P 3P + 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 (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 conforming to IEC 62053-22 Class 0.2S energy conforming to IEC 62053-23 Class 0.2 energy conforming to ANSI C12.20
Number of outputs	2 pulse 4 form C relay output
Communication port protocol	TCP/IP at 10/100 Mbit/s DNP3 at 300115200 bauds ION at 300115200 bauds DLMS at 300115200 bauds Modbus at 57600 bauds Ansi C12.18 at <= 19200 bauds DNP3 at 10/100 Mbit/s ION at 10/100 Mbit/s IEC 61850 ed. 2 at 10/100 Mbit/s Modbus RTU, master/slave at 300115200 bauds Modbus TCP, master/slave at 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	Sag and swell logs Time stamping Revenue logs Historical logs Transient logs GPS synchronisation Event logs Harmonics logs Alarms Data logs
Transmission rate	10/100 Mbit/s <= 19200 bauds 300115200 bauds 57600 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 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 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	595 %
Pollution degree	2
Ambient air temperature for operation	-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)
Maximum Depth	8.98 in (228 mm)
Height	11.22 in (285 mm)
Net Weight	15.43 lb(US) (7 kg)
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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

Compliant E EU RoHS Declaration Yes Yes
[™] Yes
China RoHS Declaration
Product Environmental Profile
End Of Life Information
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.