# Product data sheet Characteristics

# S8650C1C0E6E1A0A

ION8650 meter 32MB, 35S, 277VAC 60Hz, Ethernet No I/O



### Main

Range	PowerLogic
Product name	PowerLogic ION8650
Device short name	ION8650C
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 Up to the 31st harmonic
Device Application	Instrument transformer correction Demand and power factor control Co-generation and IPP monitoring Load curtailment Equipment monitoring and control Energy pulsing and totalisation Tariff metering
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	120480 V AC 4763 Hz
Network Frequency	60 Hz
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	35S 2-element 3
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 EtherGate Modbus RTU, slave 300115200 bauds Modbus TCP, slave 10/100 Mbit/s
Communication port support	RJ45 Ethernet SUB-D 9 RS485/RS232 Infrared Terminal block RS485
Time synchronisation protocol	GPS: Truetime/Datum IRIG-B
Data recording	Historical logs Alarms Revenue logs Time stamping Sag and swell logs GPS synchronisation Data logs Harmonics logs Event logs
Transmission Rate	57600 bauds 300115200 bauds <= 19200 bauds 10/100 Mbit/s
Memory capacity	32 MB
Web services	Alarm notification by e-mail Robust security logs Port addressing user designed Web server
Ethernet service	SNMP-Traps and SYSLOG Enable/Disable Ethernet protocols Enable/disable serial ports
Tamperproof of settings	Protected by access code
Compatibility code	ION8650C
Environment	
Electromagnetic compatibility	Electrostatic discharge immunity test IEC 61000-4-2 Susceptibility to electromagnetic fields IEC 61000-4-3 Electrical fact transicat/burst immunity test IEC 61000-4-4

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	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	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	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	09749-POWERLOGIC ION 8650C HARDWARE
Discount Schedule	PM1S
GTIN	NULL
Nbr. of units in pkg.	1
Package weight(Lbs)	9.92 lb(US) (4.5 kg)
Returnability	Yes

## Packing Units

Unit Type of Package 1	PCE	
Package 1 Height	10.24 in (26 cm)	
Package 1 width	11.02 in (28 cm)	
Package 1 Length	17.32 in (44 cm)	

### Offer Sustainability

☑ End Of Life Information
Product Environmental Profile
China RoHS Declaration
₫Yes
Yes
Compliant EPEU RoHS Declaration
Yes
REACh Declaration
WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov
Green Premium product