# Product data sheet Characteristics

# M8650C0C0H6C7A0A

ION8650 meter 32MB, 9S/29S/36S, 120VAC/160VDC 60Hz, Full comm No I/O



### Main

Range	PowerLogic
Device short name	ION8650C
Product or component type	Energy and power quality meter

### Complementary

Power quality analysis	Up to the 31st harmonic
	Harmonic distortion
	Voltage sag and swell detection Programmablity (logic and math functions)
Device application	Demand and power factor control
	Equipment monitoring and control
	Load curtailment
	Instrument transformer correction
	Co-generation and IPP monitoring Tariff metering
	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 total  Reactive power per phase
Supply voltage	120277 V AC 4763 Hz
2. P. P. 2. 2. 2.	65120 V AC 4763 Hz
	80160 V DC
Network frequency	60 Hz
Outlet standard	American
Line Rated Current	5 A
	1 A
	2 A
Type of network	3P + N 3P
	3P 1P + N
Power consumption in VA	24 VA
Maximum power consumption in VA	33 VA
Display type	FSTN transflective LCD
Form designation	9S 3-element 4
	36S 2½-element 4
	29S 2½-element 4
Sampling rate	1024 samples/cycle
Measurement current	0.00124 A
Input type	Current 0.0120 A 0.05 Ohm)

57277 V AC phase to neutral 100480 V AC phase to phase
0
Current 0.1 % Voltage 0.1 % Power 0.1 % Power factor 0.1 % Frequency 0.001 Hz Energy 0.1 %
Class 0.2S energy IEC 62053-23 Class 0.2 energy ANSI C12.20 Class 0.2S energy IEC 62053-22
2 pulse
DNP3 300115200 bauds ION 300115200 bauds Ansi C12.18 <= 19200 bauds IEC 61850 ed. 2 10/100 Mbit/s TCP/IP 10/100 Mbit/s DLMS 300115200 bauds Modbus 57600 bauds TCP/IP 30057600 bauds DNP3 10/100 Mbit/s ION 10/100 Mbit/s ModemGate Modbus RTU, slave 300115200 bauds Modbus TCP, slave 10/100 Mbit/s EtherGate
RJ45 Ethernet SUB-D 9 RS485/RS232 Terminal block RS485 Infrared RJ11 modem
GPS: Truetime/Datum IRIG-B
Data logs Harmonics logs Event logs Time stamping Sag and swell logs Historical logs Revenue logs Alarms GPS synchronisation
10/100 Mbit/s 30057600 bauds 57600 bauds <= 19200 bauds 300115200 bauds
32 MB
Robust security logs Alarm notification by e-mail Web server Port addressing user designed
Enable/Disable Ethernet protocols SNMP-Traps and SYSLOG Enable/disable serial ports
Protected by access code
ION8650C

### 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	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	
Maximum Width	7.01 in (178 mm)	
Maximum Depth	9.33 in (237 mm)	
Maximum Height	7.01 in (178 mm)	
Net Weight	15.43 lb(US) (7 kg)	
Ordering and chinning details		
Ordering and shipping details		
Nbr. of units in pkg.	1	

Nbr. of units in pkg.	1
Package weight(Lbs)	9.92 lb(US) (4.5 kg)

# 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

California proposition 65	WARNING: This product can expose you to chemicals including: Dichloromethane (Methylene chloride) and Bisphenol A (BPA) which is known to the State of California to cause Carcinogen and Reproductive harm. For more information go to www.p65warnings.ca.gov
EU RoHS Directive	Compliant EEU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	₫Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information

### Contractual warranty

- Community		
Warranty	18 months	