# **Product data sheet**

Specifications



① To be discontinued

### ION8650 meter 64MB, 9S/29S/36S, 120VAC/160VDC socket 60Hz, Ethernet No I/O

M8650B0C0K6E1A0A

- Discontinued on: Apr 1, 2024
- () To be end-of-service on: Mar 31, 2025

#### Main

Range	PowerLogic
Device Short Name	ION8650B
Product Or Component Type	Revenue and power quality meter

Product Or Component Type

Complementary	
Power Quality Analysis	conforming to IEC 61000-4-30: class S power quality measurement conforming to IEC 61000-4-15 flicker transient capture magnitude harmonic up to the 40th conforming to EN 50160: ed. 4 compliance report harmonic distortion
	voltage sag and swell detection
	programmablity (logic and math functions)
	up to the 63rd harmonic
Device Application	Demand and power factor control
	Energy pulsing and totalisation
	Co-generation and IPP monitoring
	Instrument transformer correction
	Load curtailment
	Tariff metering
	Equipment monitoring and control
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 per phase
Supply Voltage	120277 V AC 4763 Hz
	65120 V AC 4763 Hz
	80160 V DC
Network Frequency	60 Hz
Outlet Standard	Universal
[In] Rated Current	2 A
	5 A
	1 A
Type Of Network	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	9S 3-element 4 36S 2 <sup>1</sup> / <sub>2</sub> -element 4 29S 2 <sup>1</sup> / <sub>2</sub> -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	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 conforming to IEC 62053-23 Class 0.2 energy conforming to ANSI C12.20 Class 0.2S energy conforming to IEC 62053-22
Number Of Outputs	2 pulse
Communication Port Protocol	DNP3 at 300115200 bauds ION at 300115200 bauds Ansi C12.18 at <= 19200 bauds IEC 61850 ed. 2 at 10/100 Mbit/s TCP/IP at 10/100 Mbit/s DLMS at 300115200 bauds Modbus at 57600 bauds DNP3 at 10/100 Mbit/s ION at 10/100 Mbit/s Modbus RTU, slave at 300115200 bauds Modbus TCP, slave at 10/100 Mbit/s EtherGate
Communication Port Support	RJ45: ETHERNET SUB-D 9: RS485/RS232 Terminal block: RS485 Infrared
Time Synchronisation Protocol	IRIG-B GPS: Truetime/Datum
Data Recording	Revenue logs Alarms Event logs Historical logs Time stamping Data logs Sag and swell logs Harmonics logs GPS synchronisation
Transmission Rate	10/100 Mbit/s 300115200 bauds 57600 bauds <= 19200 bauds
Memory Capacity	64 MB
Web Services	Robust security logs Alarm notification by e-mail Port addressing user designed Web server
Ethernet Service	Enable/disable serial ports SNMP-Traps and SYSLOG Enable/disable Ethernet protocols
Tamperproof Of Settings	Protected by access code

Environment	
Electromagnetic Compatibility	Electrostatic discharge immunity test conforming to IEC 61000-4-2 Conducted RF disturbances conforming to IEC 61000-4-6 Immunity to impulse waves conforming to IEC 61000-4-12 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 Susceptibility to electromagnetic fields conforming to IEC 61000-4-3 1.2/50 µs shock waves immunity test conforming to IEC 61000-4-5 Conducted and radiated emissions B conforming to CISPR 22
Mounting Mode	Socket-mounted
Mounting Support	Enclosure door
Type Of Installation	Indoor installation
Overvoltage Category	111
Ip Degree Of Protection	IP65 front face: IP51 back:
Relative Humidity	595 %
Pollution Degree	2
Ambient Air Temperature For Operation	-4085 °C
Ambient Air Temperature For Storage	-4085 °C
Operating Altitude	03000 m
Standards	ANSI C12.1 IEC 62052-11
Width	178 mm
Depth	237 mm
Height	178 mm
Net Weight	7 kg

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	43.2 cm
Package 1 Width	26.7 cm
Package 1 Length	26.7 cm
Package 1 Weight	3.92 kg

### Sustainability

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Guide to assess a product's sustainability >



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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