

## ION8650 - FSTN LCD - 64MB 1024s - 5A e277VAC/300VDC 50Hz - RS+IR+E+M - 3DI+4DO

M8650B0C0J5C7B0A

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

# Main

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

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
	Co-generation and IPP monitoring
	Energy pulsing and totalisation
	Tariff metering
	Instrument transformer correction
	Equipment monitoring and control
	Load curtailment
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
	160277 V AC 4763 Hz
	200300 V DC
Network Frequency	50 Hz
Outlet Standard	American
[In] Rated Current	5 A
	2 A
	1 A
Type Of Network	3P
	1P + N
	3P + N
Power Consumption In Va	24 VA

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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 (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 62053-23 Class 0.2 energy conforming to ANSI C12.20 Class 0.2S energy conforming to IEC 62053-22
Number Of Outputs	2 pulse 4 form C relay output
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 TCP/IP at 30057600 bauds DNP3 at 10/100 Mbit/s ION at 10/100 Mbit/s Modbus RTU, master/slave at 300115200 bauds Modbus TCP, master/slave at 10/100 Mbit/s ModemGate EtherGate
Communication Port Support	RJ45: ETHERNET SUB-D 9: RS485/RS232 Terminal block: RS485 Infrared RJ11: modem
Time Synchronisation Protocol	IRIG-B GPS: Truetime/Datum
Data Recording	Event logs Historical logs Time stamping Revenue logs GPS synchronisation Harmonics logs Data logs Sag and swell logs Alarms
Transmission Rate	30057600 bauds 57600 bauds 300115200 bauds 10/100 Mbit/s <= 19200 bauds
Memory Capacity	64 MB
Web Services	Port addressing user designed Web server Alarm notification by e-mail Robust security logs

Ethernet Service	SNMP-Traps and SYSLOG Enable/disable Ethernet protocols Enable/disable serial ports
Tamperproof Of Settings	Protected by access code
Compatibility Code	ION8650B
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	III
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	17.8 cm
Package 1 Width	17.8 cm
Package 1 Length	23.7 cm
Package 1 Weight	7.0 kg

## 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