

Product data sheet

Specifications



ION8650 meter 64MB, FT21 cable, 277VAC 60Hz, Ethernet No I/O, password

M8650B7C0E6E1A1A

Main

Range	PowerLogic
Device short name	ION8650B
Product or component type	Revenue and power quality meter

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 programmability (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	120...277 V AC 47...63 Hz 120...480 V AC 47...63 Hz
Network frequency	60 Hz
[In] rated current	5 A 1 A 2 A
Type of network	3P 3P + N 1P + N
Power consumption in VA	24 VA
Maximum power consumption in VA	33 VA
Display type	FSTN transfective 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	0.001...24 A
Input type	Current 0.01...20 A (impedance 0.05 Ohm)
Measurement voltage	57...277 V AC phase to neutral 100...480 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 300...115200 bauds ION at 300...115200 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 300...115200 bauds Modbus at 57600 bauds DNP3 at 10/100 Mbit/s ION at 10/100 Mbit/s Modbus RTU, slave at 300...115200 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 300...115200 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	Hardware lock by jumper Protected by access code
Provided equipment	Break out cable
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
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	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	Flush-mounted
Enclosure type	FT21 switchboard
Type of installation	Indoor installation
Overvoltage category	III
IP degree of protection	IP50 front face: IP30 back:
Relative humidity	5...95 %
Pollution degree	2
Ambient air temperature for operation	-40...85 °C
Ambient air temperature for storage	-40...85 °C
Operating altitude	0...3000 m
Standards	ANSI C12.1 IEC 62052-11
Width	163 mm
Depth	228 mm
Height	285 mm
Product weight	7 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	29.0 cm
Package 1 Width	29.0 cm
Package 1 Length	41.0 cm
Package 1 Weight	7.0 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Recommended replacement(s)