# Product data sheet Characteristics

# M8650B0C0H6E1A1A

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



#### Main

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Range	PowerLogic	98
Device short name	ION8650B	ific u
Product or component type	Energy and power quality meter	beds

#### Complementary

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	Instrument transformer correction Demand and power factor control Tariff metering Equipment monitoring and control Co-generation and IPP monitoring Load curtailment 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 total Active 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	American	

[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 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	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, master/slave at 300115200 bauds Modbus TCP, master/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	Time stamping Historical logs Sag and swell logs Harmonics logs Alarms Revenue logs GPS synchronisation Event logs Data logs		
Transmission rate	10/100 Mbit/s 300115200 bauds <= 19200 bauds 57600 bauds		
Memory capacity	64 MB		
Web services	Web server Port addressing user designed Alarm notification by e-mail Robust security logs		
Ethernet service	Enable/disable serial ports Enable/disable Ethernet protocols		

### SNMP-Traps and SYSLOG

Tamperproof of settings	Protected by access code Hardware lock by jumper
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

Package 1 Weight	4.500 kg	
Package 1 Height	26.000 cm	
Package 1 width	28.000 cm	
Package 1 Length	44.000 cm	

#### Offer Sustainability

Offer Sustainability	
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