



ION8650 meter 128MB, FT21 panel, 120VAC/160VDC 50Hz, Full comm 3I+4O, password

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Range	PowerLogic		
Device short name	ION8650A		
Product or component type	Revenue and power quality meter		
Complementary			
Power quality analysis	conforming to IEC 61000-4-15 flicker magnitude harmonic up to the 50th transient capture conforming to EN 50160: ed. 4 compliance report harmonic distortion voltage sag and swell detection waveform capture programmablity (logic and math functions) up to the 63rd harmonic conforming to IEC 61000-4-30: class A power quality measurement		
Device application	Load curtailment Instrument transformer correction Tariff metering Demand and power factor control Co-generation and IPP monitoring Equipment monitoring and control 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 per phase		
Supply voltage	120277 V AC 4763 Hz 120480 V AC 4763 Hz 65120 V AC 4763 Hz 80160 V DC		
Network frequency	50 Hz		
Outlet standard	American		
[In] rated current	1 A 5 A 2 A		

Type of network

Power consumption in VA

1P + N

3P + N 3P

24 VA

Maximum power consumption in VA	33 VA		
Display type	FSTN transflective 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	0.00124 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	Time stamping Historical logs Revenue logs Data logs Transient logs Event logs GPS synchronisation Harmonics logs Alarms Sag and swell logs		
Transmission rate	300115200 bauds 10/100 Mbit/s <= 19200 bauds 57600 bauds 30057600 bauds		
Memory capacity	128 MB		
Web services	Robust security logs Port addressing user designed Alarm notification by e-mail Web server		
Ethernet service	Enable/disable serial ports Enable/disable Ethernet protocols SNMP-Traps and SYSLOG		
Tamperproof of settings	Hardware lock by jumper Protected by access code		

Provided equipment	Break out panel		
Compatibility code	ION8650A		
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	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	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	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			

Circularity Profile End of Life Information

California proposition 65 WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Recommended replacement(s)