

Product data sheet

Specifications



ION8600 power meter - 120...277 V - 60 Hz - 36S 2½-element - 10 MB

M8600A2C0E6E0A0A

⚠ Discontinued on: Dec 2, 2013

⚠ End-of-service on: Dec 4, 2023

⚠ Discontinued

Main

Range	PowerLogic
Device Short Name	ION8600A
Product Or Component Type	Energy meter and PQ compliance

Complementary

Power Quality Analysis	harmonic distortion voltage sag and swell detection waveform capture compliance monitoring dip and swell, transient disturbance direction detection programmability (logic and math functions) setpoint learning conforming to EN 50160 compliance report
Device Application	Load curtailment Energy pulsing and totalisation Instrument transformer correction Demand and power factor control Co-generation and IPP monitoring Equipment monitoring and control Tariff metering
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
Network Frequency	60 Hz
Display Type	Backlit LCD
Form Designation	36S 2½-element 4
Sampling Rate	256 samples/cycle
Measurement Current	0...5 A
Input Type	Current 0.05...20 A
Measurement Voltage	120...277 V AC
Frequency Measurement Range	47...63 Hz

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Measurement Accuracy	Current 0.1 % Voltage 0.1 % Power factor 0.5 % Frequency 0.01 Hz Power 0.2 %
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
Communication Port Protocol	ION Telnet IEC 61850 DNP3 Modbus TCP/IP
Communication Port Support	RJ45: ETHERNET RS485 SUB-D 9: RS485/RS232 Infrared
Data Recording	Sequence of event recording Min/max of instantaneous values GPS synchronisation Data logs Event logs Alarms Trending/forecasting Time stamping
Memory Capacity	10 MB
Compatibility Code	ION8600A

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
Type Of Installation	Indoor installation
Overvoltage Category	III
Ip Degree Of Protection	IP65 front face: IP51 back:
Relative Humidity	0...90 %
Pollution Degree	2
Ambient Air Temperature For Operation	-40...85 °C
Ambient Air Temperature For Storage	-40...85 °C
Operating Altitude	0...2000 m
Width	178 mm
Depth	237 mm
Net Weight	7 kg

Contractual warranty

Warranty	18 months
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