

# Product data sheet

Specifications



## ION8600 power meter - 120...277 V - 50 Hz - 9S 3-element - 10 MB

M8600A0C0E5E0A0A

❗ Discontinued on: Dec 31, 2013

❗ End-of-service on: Dec 31, 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 Equipment monitoring and control Co-generation and IPP monitoring Energy pulsing and totalisation Tariff metering Demand and power factor control Instrument transformer correction
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	50 Hz
Maximum Power Consumption In Va	24 VA
Display Type	Backlit LCD
Form Designation	9S 3-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	Min/max of instantaneous values Time stamping Sequence of event recording Data logs Event logs Trending/forecasting GPS synchronisation Alarms
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
Standards	IEC 61000-4-12 CISPR 22 IEC 6100-4-5 IEC 6100-4-6 IEC 6100-4-2 IEC 6100-4-3 IEC 6100-4-4
Width	178 mm
Depth	237 mm
Net Weight	7 kg

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Weight	1 kg

## Contractual warranty

Warranty	18 months
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