

Product data sheet

Characteristics

M8650A0C0H6E1A1A
 ION8650 meter 128MB, 9S/29S/36S,
 120VAC/160VDC 60Hz, Ethernet No I/O,
 password



Main

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|---------------------------|--------------------------------|
| Range | PowerLogic |
| Device short name | ION8650A |
| Product or component type | Energy and power quality meter |

Complementary

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|------------------------|---|
| 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 programmability (logic and math functions) up to the 63rd harmonic conforming to IEC 61000-4-30: class A power quality measurement |
| Device application | Co-generation and IPP monitoring Instrument transformer correction Energy pulsing and totalisation Demand and power factor control 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 |

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

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|---------------------------------|---|
| | 65...120 V AC 47...63 Hz 80...160 V DC |
| Network frequency | 60 Hz |
| Outlet standard | American |
| [In] rated current | 1 A 5 A 2 A |
| Type of network | 3P + N 1P + N 3P |
| Power consumption in VA | 24 VA |
| Maximum power consumption in VA | 33 VA |
| Display type | FSTN transfective LCD |
| Form designation | 9S 3-element 4 36S 2½-element 4 29S 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, master/slave at 300...115200 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 | GPS: Truetime/Datum IRIG-B |
| Data recording | Time stamping Alarms Sag and swell logs Data logs Event logs GPS synchronisation Transient logs Historical logs Harmonics logs Revenue logs |
| Transmission rate | <= 19200 bauds 300...115200 bauds 57600 bauds 10/100 Mbit/s |
| Memory capacity | 128 MB |
| Web services | Web server |

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|-------------------------|---|
| | Alarm notification by e-mail Robust security logs Port addressing user designed |
| Ethernet service | Enable/disable Ethernet protocols Enable/disable serial ports SNMP-Traps and SYSLOG |
| Tamperproof of settings | Hardware lock by jumper Protected by access code |
| Compatibility code | ION8650A |

Environment

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|---------------------------------------|---|
| 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 | 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 | 178 mm |
| Depth | 237 mm |
| Height | 178 mm |
| Net weight | 7 kg |

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope) |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |