Product data sheet

Specifications



① Discontinued

ION8650 meter 128MB, 35S, 277VAC 50Hz, standard 3I+4O

M8650A1C0E5A0B0A

() Discontinued on: Jan 11, 2021

Main

| Range | PowerLogic |
|---------------------------|---------------------------------|
| Device Short Name | ION8650A |
| Product Or Component Type | Revenue and power quality meter |

| Complementary |
|---------------|
|---------------|

| 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 |
| Co-generation and IPP monitoring |
| Tariff metering |
| Load curtailment |
| Equipment monitoring and control |
| Instrument transformer correction |
| Demand and power factor control |
| |
| Energy pulsing and totalisation |
| 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 |
| 120277 V AC 4763 Hz |
| 120480 V AC 4763 Hz |
| |
| 50 Hz |
| 5 A |
| 1 A |
| 2 A |
| 3P |
| 3P + N |
| 1P + N |
| 24 VA |
| 33 VA |
| |
| |

| Form Designation | 35S 2-element 3 |
|-------------------------------|--|
| 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 |
| | DLMS at 300115200 bauds |
| | Modbus at 57600 bauds |
| | Modbus RTU, master/slave at 300115200 bauds |
| Communication Port Support | SUB-D 9: RS485/RS232 |
| | Terminal block: RS485 |
| | Infrared |
| Time Synchronisation Protocol | IRIG-B |
| | GPS: Truetime/Datum |
| Data Recording | GPS synchronisation |
| | Harmonics logs |
| | Revenue logs |
| | Time stamping |
| | Historical logs |
| | Event logs |
| | Alarms Sag and swell logs |
| | Transient logs |
| | Data logs |
| | - |
| Transmission Rate | 300115200 bauds <= 19200 bauds |
| | 57600 bauds |
| Memory Capacity | 128 MB |
| Web Services | Web server |
| | Robust security logs |
| | Port addressing user designed |
| | Alarm notification by e-mail |
| Ethernet Service | Enable/disable corial parts |
| | Enable/disable serial ports Enable/disable Ethernet protocols |
| | SNMP-Traps and SYSLOG |
| | |
| Tamperproof Of Settings | Protected by access code |
| 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 | 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

| Unit Type Of Package 1 | PCE |
|------------------------------|---------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 26.0 cm |
| Package 1 Width | 28.0 cm |
| Package 1 Length | 44.0 cm |
| Package 1 Weight | 4.5 kg |

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Guide to assess a product's sustainability >



Transparency

Well-being performance

Mercury Free

| Rohs Exemption Information | Yes |
|----------------------------|--|
| Eu Rohs Directive | Compliant EU RoHS Declaration |
| China Rohs Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| California Proposition 65 | WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov |