



Main

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| Range | PowerLogic |
| Product name | PowerLogic ION8650 |
| Device short name | ION8650A |
| Product or Component Type | Energy and power quality meter |

Complementary

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|---------------------------------|---|
| Power quality analysis | <ul style="list-style-type: none"> Harmonic distortion Programmability (logic and math functions) Voltage sag and swell detection Waveform capture Up to the 63rd harmonic IEC 61000-4-30 class A power quality measurement IEC 61000-4-15 flicker Magnitude harmonic up to the 50th Transient capture EN 50160 compliance report |
| Device Application | <ul style="list-style-type: none"> Equipment monitoring and control Demand and power factor control Co-generation and IPP monitoring Tariff metering Energy pulsing and totalisation Instrument transformer correction Load curtailment |
| Type of measurement | <ul style="list-style-type: none"> Power factor total Power factor per phase Apparent power total Apparent power per phase Active power total Active power per phase Reactive power total Reactive power per phase Current Voltage Frequency |
| Supply voltage | <ul style="list-style-type: none"> 120...277 V AC 47...63 Hz 65...120 V AC 47...63 Hz 80...160 V DC |
| Network Frequency | 60 Hz |
| Outlet standard | American |
| Line Rated Current | <ul style="list-style-type: none"> 2 A 5 A 1 A |
| Poles description | <ul style="list-style-type: none"> 1P + N 3P 3P + N |
| Power consumption in VA | 24 VA |
| Maximum power consumption in VA | 33 VA |
| Display Type | FSTN transfective LCD |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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| 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 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 IEC 62053-22 Class 0.2S energy IEC 62053-23 Class 0.2 energy ANSI C12.20 |
| Number of Outputs | 2 pulse |
| Communication port protocol | TCP/IP 10/100 Mbit/s DNP3 300...115200 bauds ION 300...115200 bauds DLMS 300...115200 bauds Modbus 57600 bauds Ansi C12.18 <= 19200 bauds DNP3 10/100 Mbit/s ION 10/100 Mbit/s IEC 61850 ed. 2 10/100 Mbit/s TCP/IP 300...57600 bauds Modbus RTU, master/slave 300...115200 bauds Modbus TCP, master/slave 10/100 Mbit/s EtherGate ModemGate |
| Communication port support | RJ11 modem RJ45 Ethernet SUB-D 9 RS485/RS232 Infrared Terminal block RS485 |
| Time synchronisation protocol | GPS: Truetime/Datum IRIG-B |
| Data recording | GPS synchronisation Transient logs Alarms Sag and swell logs Revenue logs Historical logs Data logs Harmonics logs Time stamping Event logs |
| Transmission Rate | 57600 bauds 300...115200 bauds 10/100 Mbit/s 300...57600 bauds <= 19200 bauds |
| Memory capacity | 128 MB |
| Web services | Web server Port addressing user designed Robust security logs Alarm notification by e-mail |
| Ethernet service | Enable/Disable serial ports Enable/Disable Ethernet protocols SNMP-Traps and SYSLOG |
| Tamperproof of settings | Protected by access code |
| Compatibility code | ION8650A |

Environment

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|---------------------------------------|---|
| Electromagnetic compatibility | Electrostatic discharge immunity test IEC 61000-4-2 Susceptibility to electromagnetic fields IEC 61000-4-3 Electrical fast transient/burst immunity test IEC 61000-4-4 1.2/50 µs shock waves immunity test IEC 61000-4-5 Conducted and radiated emissions CISPR 22 Conducted RF disturbances IEC 61000-4-6 Immunity to impulse waves IEC 61000-4-12 |
| Mounting Mode | Socket-mounted |
| Mounting support | Enclosure door |
| Type of Installation | Indoor installation |
| Overvoltage category | III |
| IP degree of protection | Front face IP65 Back IP51 |
| Relative humidity | 5...95 % |
| Pollution degree | 2 |
| Ambient air temperature for operation | -40...185 °F (-40...85 °C) |
| Ambient Air Temperature for Storage | -40...185 °F (-40...85 °C) |
| Operating altitude | 0...9842.52 ft (0...3000 m) |
| Standards | ANSI C12.1 IEC 62052-11 |
| Width | 7.01 in (178 mm) |
| Depth | 9.33 in (237 mm) |
| Height | 7.01 in (178 mm) |
| Net Weight | 15.43 lb(US) (7 kg) |







Ordering and shipping details

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|-----------------------|-------------------------------------|
| Category | 09758-POWERLOGIC ION 8650A HARDWARE |
| Discount Schedule | PM1S |
| GTIN | NULL |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 9.92 lb(US) (4.5 kg) |
| Returnability | No |

Packing Units

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|------------------------|------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 10.24 in (26 cm) |
| Package 1 width | 11.02 in (28 cm) |
| Package 1 Length | 17.32 in (44 cm) |

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov |
| 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 |  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. |