# Product datasheet

Specifications

## M8800A energy meter - 10 MB - class A - 5 A input - 50 Hz

M8800A1C0B5M1C0A

Discontinued on: 25 Jan 2023

End-of-service on: 25 Jan 2024

Discontinued

## Main

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|---|---|
| **Range** | PowerLogic |
| **Device Short Name** | ION8800A |
| **Product Or Component Type** | Energy and power quality meter |

## Complementary

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| **Power Quality Analysis** | conforming to IEC 61000-4-15 flicker<br>magnitude harmonic up to the 50th<br>conforming to IEEE 519: 1992 harmonic control<br>conforming to IEEE 1159: 1995 power quality monitoring<br>symmetrical component<br>transient detection (20 µs)<br>voltage sag and swell detection<br>programmablity (logic and math functions)<br>up to the 63rd harmonic<br>conforming to IEC 61000-4-30: class A power quality measurement<br>conforming to EN 50160 compliance report |
| **Device Application** | Energy pulsing and totalisation<br>Instrument transformer correction<br>Power monitoring<br>Contract optimisation<br>Tariff metering<br>Co-generation and IPP monitoring<br>Load curtailment<br>Demand and power factor control<br>Equipment monitoring and control |
| **Type Of Measurement** | Current<br>Voltage<br>Frequency<br>Apparent power total<br>Power factor total<br>Apparent power per phase<br>Power factor per phase<br>Active power total<br>Active power per phase<br>Reactive power total<br>Reactive power per phase |
| **Supply Voltage** | 85...240 V AC 47...63 Hz<br>110...270 V DC |
| **Network Frequency** | 50 Hz |
| **[In] Rated Current** | 5 A |
| **Type Of Network** | 1P + N<br>3P<br>3P + N |
| **Power Consumption In Va** | 19 VA |
| **Maximum Power Consumption In Va** | 32 VA |

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| **Display Type** | FSTN transflective LCD |
| **Sampling Rate** | 1024 samples/cycle |
| **Measurement Current** | 0…5 A |
| **Input Type** | Current 0.001...10 A (impedance 0.01 Ohm) |
| **Measurement Voltage** | 57…288 V AC phase to neutral<br>99…500 V AC phase to phase |
| **Frequency Measurement Range** | 47…63 Hz |
| **Number Of Inputs** | 3 digital 80...280 V AC/DC |
| **Measurement Accuracy** | Current 0.1 %<br>Voltage 0.1 %<br>Power 0.2 %<br>Power factor 0.1 %<br>Frequency 0.005 Hz<br>Energy 0.2 % |
| **Accuracy Class** | Class 0.2S active energy conforming to IEC 62053-22<br>Class 0.2S reactive energy conforming to IEC 62053-23 |
| **Number Of Outputs** | 1 alarm output<br>8 form A triac output<br>4 form C solid state output<br>2 IEC 1107 pulse |
| **Communication Port Protocol** | DLMS<br>ION<br>DNP3<br>Modbus RTU, master/slave at <= 19200 bauds<br>Modbus RTU, master/slave at 300...57600 bauds<br>Modbus RTU, master/slave at 300...115200 bauds<br>Modbus RTU, master/slave at 56 kbit/s maximum<br>IEC 1107 at <= 19200 bauds |
| **Communication Port Support** | Screw terminal block: RS485<br>Infrared<br>RJ11: modem<br>DB9: RS485/RS232 |
| **Data Recording** | Waveform logs<br>Min/max of instantaneous values<br>Historical logs<br>Data logs<br>Transient logs<br>GPS synchronisation<br>Alarms<br>Time stamping |
| **Transmission Rate** | 300...57600 bauds<br>300...115200 bauds<br><= 19200 bauds<br>56 kbit/s maximum |
| **Memory Capacity** | 10 MB |
| **Web Services** | Web server |
| **Tamperproof Of Settings** | Protected by access code |
| **Compatibility Code** | ION8800A |

# Environment

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|---|---|
| **Electromagnetic Compatibility** | Conducted RF disturbances conforming to IEC 61000-4-6<br>Immunity to impulse waves conforming to IEC 61000-4-12<br>Electrical fast transient/burst immunity test conforming to IEC 61000-4-4<br>Electrostatic discharge conforming to IEC 61000-4-2<br>Susceptibility to electromagnetic fields conforming to IEC 61000-4-3<br>1.2/50 µs shock waves immunity test conforming to IEC 61000-4-5<br>Conducted and radiated emissions B conforming to CISPR 22 |
| **Mounting Mode** | Rack-mounted |
| **Enclosure Type** | 19" rack |

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| **Type Of Installation** | Indoor installation |
| **Overvoltage Category** | III |
| **Ip Degree Of Protection** | IP51 conforming to IEC 60529 |
| **Relative Humidity** | 5…95 % |
| **Pollution Degree** | 2 |
| **Ambient Air Temperature For Operation** | -10…45 °C |
| **Ambient Air Temperature For Storage** | -25…70 °C |
| **Operating Altitude** | 0...2000 m |
| **Product Certifications** | EGR<br>ESKOM<br>GOST<br>NMI |
| **Standards** | IEC 62052-11<br>IEC 60950 |
| **Width** | 202.1 mm |
| **Depth** | 261.51 mm |
| **Height** | 132.2 mm |
| **Net Weight** | 6 kg |

## Packing Units

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| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |

## Contractual warranty

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| **Warranty** | 18 months |

## Sustainability

**Green Premium$^{TM}$ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

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Guide to assess a product's sustainability >

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| **Eu Rohs Directive** | Compliant<br>EU RoHS Declaration |
| **Weee** | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |