# Product data sheet

Specifications



① Discontinued

# ION7650, wDispl, 10MB 1024s, 5A 240VAC/300VDC 50Hz -RS+T2+E+M - 8I+3R+4O T

M7650B1C0B5C1A0F

Uiscontinued on: Jun 1, 2021

#### Main

| Range                     | PowerLogic                     |
|---------------------------|--------------------------------|
| Device Short Name         | ION7650                        |
| Product Or Component Type | Energy and power quality meter |

### Complementary

| Complementary                      |  |
|------------------------------------|--|
| Power Quality Analysis             | harmonic distortion<br>voltage sag and swell detection<br>waveform capture<br>compliance monitoring<br>dip and swell, transient<br>disturbance direction detection<br>programmablity (logic and math functions)<br>setpoint learning<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                 | Demand and power factor control<br>Tariff metering<br>Instrument transformer correction<br>Co-generation and IPP monitoring<br>Load curtailment<br>Equipment monitoring and control<br>Energy pulsing and totalisation   |
| 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                     | 110300 V DC<br>85240 V AC 4763 Hz  |
| Network Frequency                  | 50 Hz  |
| [In] Rated Current                 | 5 A  |
| Type Of Network                    | 3P + N<br>1P + N<br>3P   |
| Power Consumption In Va            | 20 VA  |
| Maximum Power Consumption In<br>Va | 45 VA  |
| Display Resolution                 | 320 x 240 pixels QVGA  |

| Display Type                | Backlit LCD   |
|-----------------------------|---|
| Sampling Rate               | 1024 samples/cycle  |
| Measurement Current         | 05 A  |
| Input Type                  | Current 0.00520 A (impedance 0.002 Ohm)   |
| Measurement Voltage         | 100600 V AC phase to phase<br>57347 V AC phase to neutral   |
| Frequency Measurement Range | 4269 Hz   |
| Number Of Inputs            | 8 digital 120 V DC  |
| Measurement Accuracy        | Current 0.1 % 15 A<br>Voltage 0.1 % 57288 V<br>Energy 0.2 %   |
| Accuracy Class              | Class 0.2S energy conforming to IEC 62053-22  |
| Number Of Outputs           | 3 relay<br>4 solid state  |
| Communication Port Protocol | Telnet<br>DNP3 at <= 115.2 kbits/s<br>ION at <= 115.2 kbits/s<br>Modbus at <= 115.2 kbits/s<br>IEC 61850<br>TCP/IP at 10/100 Mbit/s                       |
| Communication Port Support  | RJ45: ETHERNET<br>RS485<br>Infrared<br>RJ11: modem<br>SUB-D 9: RS232  |
| Data Recording              | Data logs<br>Sequence of event recording<br>Min/max of instantaneous values<br>Event logs<br>GPS synchronisation<br>Time stamping<br>Trending/forecasting |
| Transmission Rate           | 10/100 Mbit/s<br><= 57.6 kbits/s<br><= 115.2 kbits/s  |
| Memory Capacity             | 10 MB   |
| Web Services                | Web server  |
| Tamperproof Of Settings     | Protected by access code  |
| Compatibility Code          | ION7650   |

## Environment

| Electromagnetic Compatibility | 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                 | Flush-mounted  |
| Mounting Support              | Enclosure door   |
| Type Of Installation          | Indoor installation  |
| Overvoltage Category          | III  |
| Ip Degree Of Protection       | IP30 back: conforming to IEC 60529<br>IP50 front face: conforming to IEC 60529   |
| Relative Humidity             | 595 %  |
| Surface Finish                | Coated   |

| Pollution Degree                         | 2           |
|--|-------------|
| Ambient Air Temperature For<br>Operation | -2070 °C    |
| Ambient Air Temperature For<br>Storage   | -4085 °C    |
| Operating Altitude                       | 02000 m     |
| Standards                                | IEC 61010-1 |
| Width                                    | 192 mm      |
| Depth                                    | 174 mm      |
| Height                                   | 192 mm      |
| Net Weight                               | 1.9 kg      |

#### **Sustainability**

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

| Eu Rohs Directive         | Compliant<br>EU RoHS Declaration  |
|---------------------------|---|
| China Rohs Regulation     | China RoHS declaration  |
| Weee                      | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| California Proposition 65 | WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov  |