

# Product datasheet

Specifications



## ION7550, wDispl, 5MB 256s, 5A 240VAC/300VDC 60Hz - RS+T2+E - 8I+3R+4O

M7550A0C0B6E0A0A

! Discontinued

! Discontinued on: 04-Sept-2019

! End-of-service on: 21-Nov-2020

### Main

|                           |                                |
|---------------------------|--------------------------------|
| Range                     | PowerLogic                     |
| Device Short Name         | ION7550                        |
| Product Or Component Type | Energy and power quality meter |

### 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>programmability (logic and math functions)<br>setpoint learning<br>up to the 63rd harmonic |
| Device Application              | Energy pulsing and totalisation<br>Instrument transformer correction<br>Demand and power factor control<br>Tariff metering<br>Equipment monitoring and control<br>Co-generation and IPP monitoring<br>Load curtailment   |
| 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                  | 110...300 V DC<br>85...240 V AC 47...63 Hz   |
| Network Frequency               | 60 Hz  |
| [In] Rated Current              | 5 A  |
| Type Of Network                 | 3P<br>1P + N<br>3P + N   |
| Power Consumption In Va         | 20 VA at 85...240 V AC<br>20 VA at 110...300 V DC  |
| Maximum Power Consumption In Va | 45 VA at 85...240 V AC<br>45 VA at 110...300 V DC  |
| Display Resolution              | 320 x 240 pixels QVGA  |

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

|                             |   |
|-----------------------------|---|
| Display Type                | Backlit LCD   |
| Sampling Rate               | 256 samples/cycle   |
| Measurement Current         | 0...5 A   |
| Input Type                  | Current 0.005...20 A (impedance 0.002 Ohm)  |
| Measurement Voltage         | 100...600 V AC phase to phase<br>57...347 V AC phase to neutral   |
| Frequency Measurement Range | 42...69 Hz  |
| Number Of Inputs            | 8 digital 120 V DC  |
| Measurement Accuracy        | Current 0.1 % 1...5 A<br>Voltage 0.1 % 57...288 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>SUB-D 9: RS485/RS232<br>Terminal block: RS485<br>Infrared   |
| Data Recording              | Event logs<br>GPS synchronisation<br>Data logs<br>Sequence of event recording<br>Min/max of instantaneous values<br>Trending/forecasting<br>Time stamping |
| Transmission Rate           | 10/100 Mbit/s<br><= 19200 bauds<br>300...115200 bauds<br>300...57600 bauds  |
| Memory Capacity             | 5 MB  |
| Web Services                | Web server  |
| Tamperproof Of Settings     | Protected by access code  |
| Compatibility Code          | ION7550   |

## 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             | 5...95 %   |
| Pollution Degree              | 2  |

|                                       |             |
|---------------------------------------|-------------|
| Ambient Air Temperature For Operation | -20...70 °C |
| Ambient Air Temperature For Storage   | -40...85 °C |
| Operating Altitude                    | 0...2000 m  |
| Standards                             | IEC 61010-1 |
| Width                                 | 192 mm      |
| Depth                                 | 174 mm      |
| Height                                | 192 mm      |
| Net Weight                            | 1.9 kg      |

## Packing Units

|                              |        |
|------------------------------|--------|
| Unit Type Of Package 1       | PCE    |
| Number Of Units In Package 1 | 1      |
| Package 1 Height             | 26 cm  |
| Package 1 Width              | 28 cm  |
| Package 1 Length             | 44 cm  |
| Package 1 Weight             | 3.5 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

# Sustainability

**Green Premium™ 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<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.

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|                       |   |
|-----------------------|---|
| Eu Rohs Directive     | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| China Rohs Regulation | <a href="#">China RoHS declaration</a>  |
| Weee                  | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |