



### Main

|                           |                                |
|---------------------------|--------------------------------|
| Range                     | PowerLogic                     |
| Device short name         | ION7550                        |
| Product or component type | Energy and power quality meter |

### Complementary

|                        |  |
|------------------------|--|
| Power quality analysis | <ul style="list-style-type: none"> <li>Waveform capture</li> <li>Disturbance direction detection</li> <li>Compliance monitoring</li> <li>Dip and swell, transient</li> <li>Harmonic distortion</li> <li>Programmability (logic and math functions)</li> <li>Setpoint learning</li> <li>Voltage sag and swell detection</li> <li>Up to the 63rd harmonic</li> </ul> |
| Device application     | <ul style="list-style-type: none"> <li>Tariff metering</li> <li>Co-generation and IPP monitoring</li> <li>Demand and power factor control</li> <li>Load curtailment</li> <li>Equipment monitoring and control</li> <li>Energy pulsing and totalisation</li> <li>Instrument transformer correction</li> </ul>   |
| Type of measurement    | <ul style="list-style-type: none"> <li>Apparent power total</li> <li>Apparent power per phase</li> <li>Active power total</li> <li>Active power per phase</li> <li>Reactive power total</li> <li>Reactive power per phase</li> <li>Voltage</li> <li>Current</li> <li>Frequency</li> <li>Power factor total</li> <li>Power factor per phase</li> </ul>              |
| Supply voltage         | <ul style="list-style-type: none"> <li>85...240 V AC 47...63 Hz</li> <li>110...300 V DC</li> </ul>   |
| Network frequency      | 60 Hz  |

|                             |   |
|-----------------------------|---|
| Line Rated Current          | 5 A   |
| Type of network             | 1P + N<br>3P<br>3P + N  |
| Power consumption in VA     | 20 VA at 85...240 V AC<br><= 45 VA at 85...240 V DC<br>20 VA at 110...300 V<br><= 45 VA at 110...300 V  |
| Display resolution          | 320 x 240 pixels QVGA   |
| Display type                | Backlit LCD   |
| Sampling rate               | 256 samples/cycle   |
| Measurement current         | 0...5 A   |
| Input type                  | Current 0.005...20 A 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        | 0.2 % energy<br>0.1 % current 1...5 A<br>0.1 % voltage 57...288 V   |
| 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 : <= 115.2 kbits/s,<br>ION : <= 115.2 kbits/s,<br>Modbus : <= 115.2 kbits/s,<br>TCP/IP : 10/100 Mbit/s,                                    |
| Communication port support  | Ethernet RJ45<br>Infrared<br>RS485 terminal block<br>RS485/RS232 SUB-D 9  |
| Data recording              | Data logs<br>Event logs<br>Min/max of instantaneous values<br>Sequence of event recording<br>Time stamping<br>Trending/forecasting<br>GPS synchronisation |
| Transmission rate           | 10/100 Mbit/s<br>300...57600 bauds<br>300...115200 bauds<br><= 19200 bauds  |
| Memory capacity             | 10 MB   |
| Web services                | Web server  |
| Tamperproof of settings     | Protected by access code  |

## Environment

|                               |   |
|-------------------------------|---|
| Electromagnetic compatibility | <ul style="list-style-type: none"> <li>• susceptibility to electromagnetic fields, conforming to IEC 61000-4-3</li> <li>• electrical fast transient/burst immunity test, conforming to IEC 61000-4-4</li> <li>• 1.2/50 µs shock waves immunity test, conforming to IEC 61000-4-5</li> <li>• electrostatic discharge, conforming to IEC 61000-4-2</li> <li>• conducted and radiated emissions class B, conforming to CISPR 22</li> </ul> |
| Mounting mode                 | Flush-mounted   |
| Mounting support              | Enclosure door  |
| Type of installation          | Indoor installation   |
| Overvoltage category          | III   |
| IP degree of protection       | IP30 back IEC 60529<br>IP50 front face IEC 60529  |
| Relative humidity             | 5...95 %  |
| Pollution degree              | 2   |

|                                       |                             |
|---------------------------------------|-----------------------------|
| Ambient air temperature for operation | -4...158 °F (-20...70 °C)   |
| Ambient air temperature for storage   | -40...185 °F (-40...85 °C)  |
| Operating altitude                    | 0...6561.68 ft (0...2000 m) |
| Standards                             | IEC 61010-1                 |
| Width                                 | 7.56 in (192 mm)            |
| Depth                                 | 6.85 in (174 mm)            |
| Height                                | 7.56 in (192 mm)            |
| Product weight                        | 4.19 lb(US) (1.9 kg)        |

### Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 0801 - Schneider Electric declaration of conformity<br><a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold<br><a href="#">Reference not containing SVHC above the threshold</a>                |
| Product environmental profile    | Available   |
| Product end of life instructions | Available   |
| California proposition 65        | WARNING: Cancer and Reproductive Harm - <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>                            |

### Contractual warranty

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