

# Product data sheet

Specifications



ION7550, wDispl, 5MB 256s, 5A  
240VAC/300VDC 50Hz -  
RS+T2+E+F - 16I+3R+4O+4AO Trp

M7550A0C0B5F1K0C

⚠ Discontinued on: Jun 1, 2021

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## Main

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

## Complementary

Power Quality Analysis	harmonic distortion voltage sag and swell detection waveform capture compliance monitoring dip and swell, transient disturbance direction detection programmability (logic and math functions) setpoint learning up to the 63rd harmonic
Device Application	Demand and power factor control Load curtailment Energy pulsing and totalisation Tariff metering Instrument transformer correction Co-generation and IPP monitoring Equipment monitoring and control
Type Of Measurement	Current Voltage Frequency Apparent power total Power factor total Apparent power per phase Power factor per phase Active power total Active power per phase Reactive power total Reactive power per phase
Supply Voltage	110...300 V DC 85...240 V AC 47...63 Hz
Network Frequency	50 Hz
[In] Rated Current	5 A
Type Of Network	1P + N 3P 3P + N
Power Consumption In Va	20 VA at 85...240 V AC 20 VA at 110...300 V DC
Maximum Power Consumption In Va	45 VA at 85...240 V AC 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 57...347 V AC phase to neutral
Frequency Measurement Range	42...69 Hz
Number Of Inputs	16 digital 120 V DC
Measurement Accuracy	Current 0.1 % 1...5 A Voltage 0.1 % 57...288 V Energy 0.2 %
Accuracy Class	Class 0.2S energy conforming to IEC 62053-22
Number Of Outputs	3 relay 4 solid state 4 analog
Communication Port Protocol	Telnet DNP3 at <= 115.2 kbits/s ION at <= 115.2 kbits/s Modbus at <= 115.2 kbits/s TCP/IP at 10/100 Mbit/s TCP/IP at 100 Mbit/s
Communication Port Support	RJ45: ETHERNET SUB-D 9: RS485/RS232 Terminal block: RS485 Infrared SC: fiber optic
Data Recording	Time stamping Event logs GPS synchronisation Trending/forecasting Data logs Sequence of event recording Min/max of instantaneous values
Transmission Rate	300...115200 bauds 100 Mbit/s 300...57600 bauds <= 19200 bauds 10/100 Mbit/s
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 Electrostatic discharge conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields conforming to IEC 61000-4-3 1.2/50 µs shock waves immunity test conforming to IEC 61000-4-5 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 IP50 front face: conforming to IEC 60529

Relative Humidity	5...95 %
Surface Finish	Coated
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

# 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.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)

Eu Rohs Directive	Compliant <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
California Proposition 65	WARNING: Cancer and Reproductive Harm - <a href="#">www.P65Warnings.ca.gov</a>