

Product data sheet

Specifications



ION7550RTU - wDispl, 5MB 256s, 240VAC/300VDC - RS+T2+E - 20Ip+3R+8Op

M7550A0N9B9E0P0A

⚠ 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	Energy pulsing and totalisation Co-generation and IPP monitoring Load curtailment Tariff metering Demand and power factor control Equipment monitoring and control Instrument transformer correction
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	60 Hz 50 Hz
Type Of Network	3P + N 1P + N 3P
Power Consumption In Va	15 VA at 85...240 V AC 15 VA at 110...300 V DC
Maximum Power Consumption In Va	35 VA at 85...240 V AC 35 VA at 110...300 V DC
Display Resolution	320 x 240 pixels QVGA
Display Type	Backlit LCD

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

Sampling Rate	256 samples/cycle
Measurement Voltage	100...600 V AC phase to phase 57...347 V AC phase to neutral
Frequency Measurement Range	47...63 Hz
Number Of Inputs	16 digital 4 analog 0...1 V
Number Of Outputs	3 form C relay output 4 form A triac output 4 current
Communication Port Protocol	Telnet DNP3 at <= 115.2 kbits/s ION at <= 115.2 kbits/s Modbus at <= 115.2 kbits/s IEC 61850 TCP/IP at 10/100 Mbit/s
Communication Port Support	RJ45: ETHERNET SUB-D 9: RS485/RS232 Terminal block: RS485 Infrared
Data Recording	Time stamping Min/max of instantaneous values Data logs GPS synchronisation Trending/forecasting Sequence of event recording Event logs
Transmission Rate	300...115200 bauds <= 19200 bauds 10/100 Mbit/s 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 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 %
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-CO₂ 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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[Guide to assess a product's sustainability >](#)

Eu Rohs Directive	Compliant 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