



has not been replaced. Please contact your customer care center for more information.

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

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

[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
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	8 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
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
Communication port support	RJ45: Ethernet SUB-D 9: RS485/RS232 Terminal block: RS485 Infrared
Data recording	Sequence of event recording Time stamping GPS synchronisation Data logs Min/max of instantaneous values Event logs Trending/forecasting
Transmission rate	300...115200 bauds 10/100 Mbit/s 300...57600 bauds <= 19200 bauds
Memory capacity	10 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

### Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

### Contractual warranty

Warranty	18 months
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