



## 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>Load curtailment</li> <li>Instrument transformer correction</li> <li>Equipment monitoring and control</li> <li>Co-generation and IPP monitoring</li> <li>Energy pulsing and totalisation</li> <li>Tariff metering</li> <li>Demand and power factor 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
Line Rated Current	5 A
Type of network	<ul style="list-style-type: none"> <li>3P</li> <li>1P + N</li> <li>3P + N</li> </ul>
Power consumption in VA	<ul style="list-style-type: none"> <li>20 VA 85...240 V AC</li> <li>20 VA 110...300 V DC</li> </ul>
Maximum power consumption in VA	<ul style="list-style-type: none"> <li>45 VA 85...240 V AC</li> <li>45 VA 110...300 V DC</li> </ul>
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 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 IEC 62053-22
Number of outputs	3 relay 4 solid state
Communication port protocol	Telnet DNP3 <= 115.2 kbits/s ION <= 115.2 kbits/s Modbus <= 115.2 kbits/s Modbus, master
Communication port support	SUB-D 9 RS485/RS232 Terminal block RS485 infrared
Data recording	Trending/Forecasting Time stamping Event logs GPS synchronisation Min/Max of instantaneous values Sequence of event recording Data logs
Transmission rate	<= 19200 bauds 300...57600 bauds 300...115200 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 IEC 61000-4-4 Electrostatic discharge IEC 61000-4-2 Susceptibility to electromagnetic fields IEC 61000-4-3 1.2/50 µs shock waves immunity test IEC 61000-4-5 Conducted and radiated emissionsB CISPR 22
Mounting mode	Flush-mounted
Mounting support	Enclosure door
Type of installation	Indoor installation
Overvoltage category	III
IP degree of protection	Back IP30 IEC 60529 Front face IP50 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
Maximum Width	7.56 in (192 mm)
Maximum Depth	6.85 in (174 mm)
Maximum Height	7.56 in (192 mm)
Net Weight	4.19 lb(US) (1.9 kg)

## Ordering and shipping details

Package weight(Lbs)	7.72 lb(US) (3.500 kg)
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## Packing Units

Package 1 Height	10.24 in (26.000 cm)
Package 1 width	11.02 in (28.000 cm)
Package 1 Length	17.32 in (44.000 cm)

## Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including: Dichloromethane (Methylene chloride) and Bisphenol A (BPA) which is known to the State of California to cause Carcinogen and Reproductive harm. For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>
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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