



Main

Range	PowerLogic
Device short name	ION7650
Product or component type	Energy and power quality meter

Complementary

Power quality analysis	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Co-generation and IPP monitoring Energy pulsing and totalisation Instrument transformer correction Load curtailment Demand and power factor control Tariff metering Equipment monitoring and control
Type of measurement	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 110...300 V DC 85...240 V AC 47...63 Hz
Network frequency	60 Hz
Line Rated Current	5 A
Type of network	<ul style="list-style-type: none"> 1P + N 3P 3P + N
Power consumption in VA	20 VA
Maximum power consumption in VA	45 VA
Display resolution	320 x 240 pixels QVGA
Display type	Backlit LCD
Sampling rate	512 samples/cycle
Measurement current	0...5 A
Input type	Current 0.005...20 A 0.002 Ohm)
Measurement voltage	<ul style="list-style-type: none"> 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	RS485 SUB-D 9 RS485/RS232 infrared
Data recording	Event logs GPS synchronisation Data logs Min/Max of instantaneous values Sequence of event recording Time stamping Trending/forecasting
Transmission rate	300...115200 bauds 300...57600 bauds <= 19200 bauds
Memory capacity	10 MB
Web services	Web server
Tamperproof of settings	Protected by access code
Compatibility code	ION7650

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 www.p65warnings.ca.gov
EU RoHS Directive	Compliant EU RoHS Declaration
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
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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