M7650A1C0B6E0A0A

ION7650, wDispl, 5MB 1024s, 5A
240VAC/300VDC 60Hz - RS+T2+E - 8I+3R+4O

Main

Range	PowerLogic
Device short name	ION7650
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 programmablity (logic and math functions) setpoint learning up to the 63rd harmonic
Device application	Equipment monitoring and control Tariff metering Energy pulsing and totalisation Demand and power factor control Load curtailment Instrument transformer correction Co-generation and IPP monitoring
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
[In] rated current	5 A
Type of network	1P + N 3P + N

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	3P
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	1024 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	ION Telnet IEC 61850 DNP3 Modbus TCP/IP
Communication port support	RJ45: Ethernet RS485 RJ11: modem SUB-D 9: RS232 ST: fiber optic
Data recording	Min/max of instantaneous values GPS synchronisation Trending/forecasting Time stamping Data logs Sequence of event recording Event logs
Transmission rate	10/100 Mbit/s <= 19200 bauds 300...115200 bauds 300...57600 bauds
Memory capacity	5 MB
Web services	Web server
Tamperproof of settings	Protected by access code
Compatibility code	ION7650

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

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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 Weight	3.5 kg
Package 1 Height	26 cm
Package 1 width	28 cm
Package 1 Length	44 cm

Offer Sustainability

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