

Product data sheet

Characteristics

M7550A0E0C5A0K0A

ION7550, wDispl, 5MB 256s, 1A 60VDC 50Hz - RS+T2 - 16I+3R+4O+4AO



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"> 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"> Load curtailment Equipment monitoring and control Demand and power factor control Energy pulsing and totalisation Instrument transformer correction Co-generation and IPP monitoring Tariff metering
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 20...60 V DC 85...240 V AC 47...63 Hz
Network frequency	50 Hz
[In] rated current	1 A
Type of network	<ul style="list-style-type: none"> 3P + N 3P

1P + N

Power consumption in VA	20 VA at 85...240 V AC 20 VA at 110...300 V DC 15 VA at 20...60 V DC
Maximum power consumption in VA	45 VA at 85...240 V AC 45 VA at 110...300 V DC 20 VA at 20...60 V DC
Display resolution	320 x 240 pixels QVGA
Display type	Backlit LCD
Sampling rate	256 samples/cycle
Measurement current	0...1 A
Input type	Current 0.005...20 A (impedance 0.015 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	16 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 4 analog
Communication port protocol	Telnet DNP3 at <= 115.2 kbits/s ION at <= 115.2 kbits/s Modbus at <= 115.2 kbits/s Modbus, master
Communication port support	SUB-D 9: RS485/RS232 Terminal block: RS485 Infrared
Data recording	Sequence of event recording Data logs Trending/forecasting Min/max of instantaneous values Time stamping Event logs GPS synchronisation
Transmission rate	300...115200 bauds <= 19200 bauds 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

Package 1 Weight	3.500 kg
Package 1 Height	26.000 cm
Package 1 width	28.000 cm
Package 1 Length	44.000 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

