Product data sheet

Specifications

ION7650, wDispl, 10MB 512s, 1A 60VDC 50Hz - RS+T2 - 8I+3R+4O

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Discontinued on: Jun 1, 2021

Discontinued

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 conforming to IEC 61000-4-30: class A power quality measurement conforming to EN 50160 compliance report
Device Application	Tariff metering Energy pulsing and totalisation Demand and power factor control Co-generation and IPP monitoring Load curtailment Equipment monitoring and control Instrument transformer correction
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 20...60 V DC 85...240 V AC 47...63 Hz
Network Frequency	50 Hz
[In] Rated Current	1 A
Type Of Network	3P 3P + N 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	512 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	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 Modbus, master
Communication Port Support	RS485 SUB-D 9: RS485/RS232 Infrared
Data Recording	Sequence of event recording Min/max of instantaneous values GPS synchronisation Data logs Time stamping Trending/forecasting Event 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	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
Operating Altitude	0...2000 m
Standards	IEC 61010-1
Width	192 mm
Depth	174 mm
Height	192 mm
Net Weight	1.9 kg

Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California Proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov