

# ION7650, wDispl, 10MB 1024s, 1A 60VDC 50Hz - RS+T2+E+M -8I+3R+4O

M7650B1E0C5C1A0A

! 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
Device Application	Instrument transformer correction Demand and power factor control Load curtailment Tariff metering Energy pulsing and totalisation Equipment monitoring and control 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 total Reactive power per phase
Supply Voltage	110300 V DC 2060 V DC 85240 V AC 4763 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 85240 V AC 20 VA at 110300 V DC 15 VA at 2060 V DC
Maximum Power Consumption In Va	45 VA at 85240 V AC

45 VA at 85...240 V AC 45 VA at 110...300 V DC 20 VA at 20...60 V DC

Electromagnetic Compatibility	Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 Electrostatic discharge conforming to IEC 61000-4-2
Environment	
Compatibility Code	ION7650
Tamperproof Of Settings	Protected by access code
Web Services	Web server
Memory Capacity	10 MB
Transmission Rate	<= 57.6 kbits/s 10/100 Mbit/s <= 115.2 kbits/s
	Data logs Sequence of event recording GPS synchronisation Min/max of instantaneous values Trending/forecasting Time stamping
	SUB-D 9: RS232 Event logs
Communication Port Support	RJ45: ETHERNET RS485 Infrared RJ11: modem
Communication Port Protocol	Telnet DNP3 at <= 115.2 kbits/s ION at <= 115.2 kbits/s Modbus at <= 115.2 kbits/s IEC 61850 TCP/IP at 10/100 Mbit/s
Number Of Outputs	3 relay 4 solid state
Accuracy Class	Class 0.2S energy conforming to IEC 62053-22
Measurement Accuracy	Current 0.1 % 15 A Voltage 0.1 % 57288 V Energy 0.2 %
Number Of Inputs	8 digital 120 V DC
Frequency Measurement Range	4269 Hz
Measurement Voltage	100600 V AC phase to phase 57347 V AC phase to neutral
Input Type	Current 0.00520 A (impedance 0.015 Ohm)
Measurement Current	01 A
Sampling Rate	1024 samples/cycle
Display Type	Backlit LCD
Display Resolution	320 x 240 pixels QVGA

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	595 %

Pollution Degree	2
Ambient Air Temperature For Operation	-2070 °C
Ambient Air Temperature For Storage	-4085 °C
Operating Altitude	02000 m
Standards	IEC 61010-1
Width	192 mm
Depth	174 mm
Height	192 mm
Net Weight	1.9 kg

## Sustainability

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> 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