Product data sheet

Specifications



① Discontinued

ION7650, wDisp - 10MB 1024s, 1A 240VAC/300VDC 50Hz -RS+T2+E+F - 20Ip+3R+8Op T

M7650B1E0B5F1P0F

Discontinued on: Jun 1, 2021

Main

Range	PowerLogic
Device Short Name	ION7650
Product Or Component Type	Energy and power quality meter

Complementary

Complementary	
Power Quality Analysis	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
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	conforming to IEC 61000-4-30: class A power quality measurement conforming to EN 50160 compliance report
Device Application	Equipment monitoring and control
	Co-generation and IPP monitoring
	Demand and power factor control
	Tariff metering
	Energy pulsing and totalisation
	Instrument transformer correction
	Load curtailment
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	110300 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
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	01 A
Input Type	Current 0.00520 A (impedance 0.015 Ohm)
Measurement Voltage	100600 V AC phase to phase 57347 V AC phase to neutral
Frequency Measurement Range	4269 Hz
Number Of Inputs	4 analog 01 A 16 digital 120 V DC
Measurement Accuracy	Current 0.1 % 15 A Voltage 0.1 % 57288 V Energy 0.2 %
Accuracy Class	Class 0.2S energy conforming to IEC 62053-22
Number Of Outputs	3 relay 4 solid state 4 current
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
Communication Port Support	RS485 Infrared SUB-D 9: RS232 SC: fiber optic
Data Recording	Min/max of instantaneous values Event logs Time stamping Data logs Trending/forecasting GPS synchronisation Sequence of event recording
Transmission Rate	<= 115.2 kbits/s 10/100 Mbit/s
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

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Mounting Support	Enclosure door	
Type Of Installation	Indoor installation	
Overvoltage Category	Ш	
Ip Degree Of Protection	IP30 back: conforming to IEC 60529 IP50 front face: conforming to IEC 60529	
Relative Humidity	595 %	
Surface Finish	Coated	

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 PremiumTM 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-CO₂ 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