

# Product data sheet

Specifications



ION7650, transd, 5MB 512s, 1A  
240VAC/300VDC 60Hz - RS+T2+E  
- 8I+3R+4O Trop

M7650T0E0B6E0A0F

⚠ 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 programmability (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	Demand and power factor control Co-generation and IPP monitoring Load curtailment Energy pulsing and totalisation Tariff metering 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 85...240 V AC 47...63 Hz
Network Frequency	60 Hz
[In] Rated Current	1 A
Type Of Network	3P 1P + N 3P + N
Power Consumption In Va	20 VA
Maximum Power Consumption In Va	45 VA
Display Type	Without display

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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	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	Data logs Min/max of instantaneous values GPS synchronisation Event logs Sequence of event recording Time stamping Trending/forecasting
Transmission Rate	<= 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	By screws
Mounting Support	Mounting plate
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 %
Surface Finish	Coated
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	216 mm
Depth	167 mm
Height	184 mm
Net Weight	1.9 kg

# Sustainability

**Green Premium™ 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<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 <a href="#">EU RoHS Declaration</a>
China Rohs Regulation	<a href="#">China RoHS declaration</a>
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 - <a href="#">www.P65Warnings.ca.gov</a>