

# Product datasheet

Specifications



ION7650 - wDispl - 5MB 512s - 5A  
240VAC/300VDC 50Hz - RS+T2 -  
8I+3R+4O

P7650A0C0B5A0A0A

⚠ Discontinued on: 01 Nov 2020

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Price: 118,048.36 ZAR

## Main

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

## Complementary

Power Quality Analysis	harmonic distortion compliance monitoring dip and swell, transient disturbance direction detection programmability (logic and math functions) setpoint learning voltage sag and swell detection waveform capture up to the 63rd harmonic
Device Application	Energy pulsing and totalisation Demand and power factor control Equipment monitoring and control Co-generation and IPP monitoring Instrument transformer correction Load curtailment Tariff metering
Type Of Measurement	Power factor total Power factor per phase Apparent power total Apparent power per phase Active power total Active power per phase Reactive power total Reactive power per phase Current Voltage Frequency
Supply Voltage	110...300 V DC 85...240 V AC 47...63 Hz
Network Frequency	50 Hz
[In] Rated Current	5 A
Poles Description	1P + N 3P + N 3P
Power Consumption In Va	20 VA
Maximum Power Consumption In Va	45 VA
Display Resolution	320 x 240 pixels QVGA

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

Display Type	Backlit LCD
Sampling Rate	512 samples/cycle
Measurement Current	0...5 A
Input Type	Current 0.005...20 A (impedance 0.002 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	SUB-D 9: RS485/RS232 RS485 Infrared
Data Recording	Data logs Min/max of instantaneous values Event logs Time stamping Sequence of event recording GPS synchronisation Trending/forecasting
Transmission Rate	300...115200 bauds 300...57600 bauds <= 19200 bauds
Memory Capacity	5 MB
Web Services	Web server
Tamperproof Of Settings	Protected by access code
Compatibility Code	ION7650

## Environment

Electromagnetic Compatibility	Electrostatic discharge conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 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

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	26 cm
Package 1 Width	28 cm
Package 1 Length	44 cm
Package 1 Weight	3.5 kg

## Contractual warranty

Warranty	18 months
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## 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.

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Eu Rohs Directive

Compliant

[EU RoHS Declaration](#)

China Rohs Regulation

[China RoHS declaration](#)