# Product data sheet

Specifications



① Discontinued

## ION7650, wDispl, 10MB 1024s, 1A 240VAC/300VDC 60Hz -RS+T2+E+F - 8I+3R+4O T

M7650B1E0B6F1A0F

Discontinued on: Jun 1, 2021

#### Main

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

### Complementary

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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	Equipment monitoring and control Energy pulsing and totalisation Instrument transformer correction Co-generation and IPP monitoring Load curtailment Demand and power factor control Tariff metering
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	60 Hz
[In] Rated Current	1 A
Type Of Network	3P + N 1P + N 3P
Power Consumption In Va	20 VA
Maximum Power Consumption In Va	45 VA
Display Resolution	320 x 240 pixels QVGA

Backlit LCD
1024 samples/cycle
01 A
Current 0.00520 A (impedance 0.015 Ohm)
100600 V AC phase to phase 57347 V AC phase to neutral
4269 Hz
8 digital 120 V DC
Current 0.1 % 15 A Voltage 0.1 % 57288 V Energy 0.2 %
Class 0.2S energy conforming to IEC 62053-22
3 relay 4 solid state
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
RS485 Infrared SUB-D 9: RS232 SC: fiber optic
Min/max of instantaneous values Event logs Time stamping Trending/forecasting Sequence of event recording Data logs GPS synchronisation
<= 115.2 kbits/s 10/100 Mbit/s
10 MB
Web server
Protected by access 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	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**

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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