

Product data sheet

Specifications



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

M7650B1E0B6F1A0F

⚠ Discontinued on: Jun 1, 2021

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Main

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|---------------------------|--------------------------------|
| 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 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 | 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 | 110...300 V DC 85...240 V AC 47...63 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 |

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

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|-----------------------------|---|
| Display Type | Backlit LCD |
| Sampling Rate | 1024 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 | 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 Trending/forecasting Sequence of event recording Data logs GPS synchronisation |
| 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

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|-------------------------------|--|
| 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 | 5...95 % |
| Surface Finish | Coated |
| Pollution Degree | 2 |

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|---------------------------------------|-------------|
| 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 |

Sustainability

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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 >](#)

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|---------------------------|---|
| 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 |