

PowerLogic™ ION9000 meter, DIN mount, 192 mm display, B2B adapter, HW kit

METSEION92040

Main

| Range | PowerLogic | |
|---------------------------|---|--|
| Device Short Name | ION92040 | |
| Product Or Component Type | Energy and power quality meter | |
| Device Application | Power monitoring WAGES metering Net metering Medium voltage High voltage | |
| Metering Type | Demand current I1, I2, I3, I4, I5 Peak demand currents Demand power P, Q, S Peak demand power PM, QM, SM Calculated active and reactive energy (+/- W.h, +/- VAR.h) | |
| Provided Equipment | Remote display Remote display adapter Mounting instructions Mounting hardware | |

Complementary

| Power Quality Analysis | EN 50160 compliance checking |
|---------------------------|--|
| | conforming to IEEE 519 harmonic limit |
| | conforming to IEC 61000-4-30: class A compliance reporting |
| | conforming to IEEE 519 compliance reporting |
| | waveform capture |
| | total demand distortion |
| | total harmonic distortion |
| | up to the 63rd harmonic |
| | up to the 127th harmonic with software |
| | disturbance direction detection |
| | dip, swell and transient |
| | half cycle data acquisition |
| | transient detection (20 µs) |
| Type Of Measurement | Voltage sags and swells |
| | Current sags and swells |
| | Voltage |
| | Current |
| | Frequency |
| | Active and reactive power total |
| | Apparent power total |
| | Active and reactive power per phase |
| | Apparent power per phase |
| | Power factor total |
| | Power factor per phase |
| | Active and reactive energy |
| | Apparent energy |
| | Harmonic distorsion (I THD & U THD) |
| [Us] Rated Supply Voltage | 90480 V AC 4566 Hz +/- 10 % |
| | 90120 V AC 400 Hz +/- 10 % |
| | 110480 V DC +/- 15 % |

| Network Frequency | 50 Hz 60 Hz |
|---------------------------------|--|
| Ride-Through Time | 100 ms 6 cycles at 60 Hz 120 V AC typical 400 ms 24 cycles at 60 Hz 240 V AC typical 1200 ms 72 cycles at 60 Hz 480 V AC typical |
| [In] Rated Current | 1 A 5 A |
| Type Of Network | 3P + N + E |
| Power Consumption In Va | 38 VA at 480 V AC |
| Maximum Power Consumption In Va | 80 VA at 480 V AC |
| Display Resolution | 800 x 480 pixels |
| Display Type | Remote LCD display Colour touchscreen |
| Sampling Rate | 1024 samples/cycle |
| Measurement Current | 0.0120 A |
| Input Type | Voltage (impedance 5 MOhm) External CT (impedance 0.3 mOhm)5 x |
| Measurement Voltage | 57400 V AC 4269 Hz between phase and neutral 100690 V AC 4269 Hz between phases |
| Frequency Measurement Range | 20450 Hz |
| Number Of Inputs | 8 digital 30 V AC/60 V DC |
| Measurement Accuracy | Voltage +/- 0.1 % Current +/- 0.1 % |
| Accuracy Class | Class 0.1S active energy conforming to IEC 62053-22 Class 0.1 active energy conforming to IEC 61557-12 Class 0.1 active energy conforming to ANSI C12.20 Class 0.5S reactive energy conforming to IEC 62053-24 Class 0.1 current conforming to IEC 61557-12 Class 0.1 voltage conforming to IEC 61557-12 Class 0.1 active power conforming to IEC 61557-12 Class 0.5 power factor conforming to IEC 61557-12 |
| Number Of Outputs | 4 digital 2 form C relay output |
| Communication Port Protocol | Modbus RTU at 2400115200 bps - 2-wire ION at 2400115200 bps - 2-wire DNP3 at 2400115200 bps - 2-wire Modbus TCP at 10/100 Mbit/s ION TCP at 10/100 Mbit/s DNP3 TCP at 10/100 Mbit/s IEC 61850 Ethernet Modbus TCP/IP daisy chain at 10/100 Mbit/s DHCP DNS DLMS |
| Communication Port Support | RS485 2 removable screw terminal block |
| Port Ethernet | 10/100BASE-TX 2 RJ45 |
| Communication Gateway | Ethernet/serial |
| Time Synchronisation Protocol | GPS IRIG-B NTP SNTP PTP |

| Data Recording | Time stamping |
|-----------------------------|---|
| | Min/max of instantaneous values |
| | User-definable data logs |
| | Continuous logging or snapshot |
| | Trending/forecasting Event logs |
| | Alarm logs |
| | Configuration change |
| | Power outage |
| | User login/logout |
| | Data logs |
| | GPS synchronisation |
| | Sequence of event recording |
| Memory Capacity | 2 GB |
| Cybersecurity | Syslog protocol support |
| | Robust security logs |
| | Port hardening |
| | Enable/disable communication ports |
| | Hardware metrology lock |
| Web Services | Viewing of captured waveform |
| | Web page |
| | Pass/fail report for IEEE 519 Pass/fail report for EN 50160 |
| | ITIC (CBEMA) curve |
| | SEMI curve |
| | NEMA motor derating curve |
| | Alarm notification by e-mail |
| | TLS 1.2 |
| | Push historical data via mail |
| Ethernet Service | DHCP client |
| | Device Profile Web Services (DPWS) |
| | Rapid Scanning Tree Protocol (RSTP) |
| | FTP/HTTP/HTTPS |
| Communication Service | Compliant reports |
| | Power quality summary |
| | Energy report |
| | EcoStruxure Power Events Analysis SMTP e-mail notification |
| | SNMP 6-mail notification |
| Tamperproof Of Settings | Protected by sealable cover |
| Mounting Support | DIN rail meter device |
| • | Door cut-out remote display |
| Electrical Insulation Class | Class III conforming to EN/IEC 62052-11 |
| Isolation Voltage | III400690 V conforming to EN 61010-1:ed. 3 |
| | III347600 V conforming to UL 61010-1:ed. 3 |
| | III347600 V conforming to CSA C22.2 No 61010-1:ed. 3 |
| Width | 160 mm |
| Depth | 135.3 mm |
| Height | 160 mm |
| Net Weight | 1.5 kg |

Environment

| Electromagnetic Compatibility | EMC immunity conforming to IEC 62052-11 | |
|--|--|--|
| | EMC immunity conforming to IEC 61326-1 | |
| | EMC immunity conforming to IEC 61000-6-5 | |
| | Electrostatic discharge immunity test conforming to IEC 61000-4-2 | |
| | Immunity to radiated fields conforming to IEC 61000-4-3 | |
| | Immunity to fast transients conforming to IEC 61000-4-4 | |
| | Surge immunity test conforming to IEC 61000-4-5 | |
| | Immunity to conducted disturbances conforming to IEC 61000-4-6 | |
| | Immunity to magnetic fields at network frequency conforming to IEC 61000-4-8 | |
| | Immunity to conducted disturbances - test level: 2150 kHz conforming to CLC/TR 50579 | |
| | Voltage dips and interruptions immunity test conforming to IEC 61000-4-11 | |
| | Immunity to impulse waves conforming to IEC 61000-4-12 | |
| | Conducted and radiated emissions conforming to EN 55011 | |
| | Conducted and radiated emissions class B conforming to EN 55032 | |
| | Conducted and radiated emissions class B conforming to FCC part 15 | |
| | Conducted and radiated emissions class B conforming to ICES-003 | |
| | Surge withstand conforming to ANSI C37.90.1 | |
| | Surge withstand conforming to IEEE C37.90.1 | |
| Ip Degree Of Protection | IP65 front: | |
| | IP30 rear: | |
| Degree Of Protection | UL type 12, front | |
| Relative Humidity | 595 % | |
| Ambient Air Temperature For Operation | -2570 °C | |
| Ambient Air Temperature For Storage | -4085 °C | |
| Installation Category | III | |
| Operating Altitude | 03000 m | |
| Standards | ANSI C12.20 | |
| | ANSI C37.90.1 | |
| | IEC 61000-4-15 | |
| | IEC 61000-4-30 | |
| | IEC 61010-1 | |
| | IEC 61326-1 | |
| | IEC 61557-12 | |
| | IEC 61850 | |
| | IEC 62052-11 | |
| | IEC 62052-31 | |
| | IEC 62053-22 | |
| | IEC 62053-23 | |
| | IEC 62053-24 | |
| | IEC 62586 | |
| | UL 61010-1 | |
| Quality Labels | ISO 9001 | |
| | ISO 14000 | |
| | | |

Packing Units

| _ | |
|------------------------------|---------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 30.0 cm |
| Package 1 Width | 30.0 cm |
| Package 1 Length | 41.0 cm |
| Package 1 Weight | 3.6 kg |
| Unit Type Of Package 2 | S04 |
| Number Of Units In Package 2 | 2 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 40.0 cm |
| Package 2 Length | 60.0 cm |

Package 2 Weight

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4.4 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 >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

Certifications & Standards

| Reach Regulation | REACh Declaration |
|---------------------------|---|
| Eu Rohs Directive | Compliant with Exemptions |
| China Rohs Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile | End of Life Information |
| California Proposition 65 | WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov |