Product data sheet

Specifications



PowerLogic™ ION9000 meter, LVDC, DIN mount, Low Voltage input current, 192 mm display, B2B adapter, HW kit

METSEION93140

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range	PowerLogic
Product or Component Type	Energy and power quality meter
Device short name	ION93040
Product name	PowerLogic ION9000
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 IEEE 519 harmonic limit IEC 61000-4-30 class A compliance reporting 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 distortion (I THD & U THD)
[Us] rated supply voltage	20...60 V DC +/- 10 %

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Ride-through time	500 ms 60 V DC typical
type of network	3P + N + E
Power consumption in VA	15 W 20...60 V DC
Maximum power consumption in VA	38 W 20...60 V DC
Display Resolution	800 x 480 pixels
Display Type	Remote LCD display Colour touchscreen
Sampling rate	1024 samples/cycle
input type	Voltage (impedance 5 MOhm) Split core current transducer (impedance 200 kOhm)5 x
Measurement voltage	57…400 V AC 42...69 Hz between phase and neutral 100…690 V AC 42...69 Hz between phases
Frequency measurement range	20…450 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 IEC 62053-22 Class 0.1 active energy IEC 61557-12 Class 0.1 active energy ANSI C12.20 Class 0.5S reactive energy IEC 62053-24 Class 0.1 current IEC 61557-12 Class 0.1 voltage IEC 61557-12 Class 0.1 active power IEC 61557-12 Class 0.5 power factor IEC 61557-12
Number of Outputs	4 digital 2 form C relay output
Communication port protocol	Modbus RTU 2400...115200 bps - 2-wire ION 2400...115200 bps - 2-wire DNP3 2400...115200 bps - 2-wire Modbus TCP 10/100 Mbit/s ION TCP 10/100 Mbit/s DNP3 TCP 10/100 Mbit/s IEC 61850 Ethernet Modbus TCP/IP daisy chain 10/100 Mbit/s DHCP DNS DLMS
Communication port support	2 RS485 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
Tamperproof of settings	Protected by sealable cover
Mounting support	DIN rail meter device Door cut-out remote display
Electrical insulation class	Class III EN/IEC 62052-11
Isolation voltage	III400…690 V conforming to EN 61010-1:ed. 3 III347…600 V conforming to UL 61010-1:ed. 3 III347…600 V conforming to CSA C22.2 No 61010-1:ed. 3
Width	6.3 in (160 mm)
Depth	5.3 in (135.3 mm)
Height	6.3 in (160 mm)
Product Weight	3.3 lb(US) (1.5 kg)
Market Segment	Data center Healthcare Semiconductor Pharmaceutical Chemical Energy Mining

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: 2...150 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	5…95 %
Ambient air temperature for operation	-13…158 °F (-25…70 °C)
Ambient Air Temperature for Storage	-40…185 °F (-40…85 °C)
Installation category	III
Operating altitude	0...9842.52 ft (0...3000 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

Ordering and shipping details

Category	US10PM109761
Discount Schedule	0PM1
GTIN	3606481945532
Returnability	No
Country of origin	CA

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	11.8 in (30.0 cm)
Package 1 Width	11.8 in (30.0 cm)
Package 1 Length	16.1 in (41.0 cm)
Package weight(Lbs)	7.9 lb(US) (3.6 kg)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**859 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**245 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**2 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**2 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**603 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**7 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**No**
Packaging without single use plastic	**No**
SCIP Number	**593f15dc-c512-4cf6-ac2d-78a614f80e12**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**
California proposition 65	**WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov**

Use Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

Recyclability potential, in %	**6**
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.**