METSEION93130

PowerLogic™ ION9000 meter, LVDC, DIN mount, Low Voltage input current, no display, HW kit





Main

Wall	
Range	PowerLogic
Device short name	ION93030
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)

Complementary

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 Apparent power per phase Power factor total Power factor total Power factor ber phase Active and reactive energy Apparent energy Harmonic distorsion (I THD & U THD)
[Us] rated supply voltage	2060 V DC +/- 10 %
Ride-through time	500 ms 60 V DC typical
Type of network	3P + N + E
Power consumption in VA	15 W at 2060 V DC
Maximum power consumption in VA	38 W at 2060 V DC
Display type	Without display
Sampling rate	1024 samples/cycle
Input type	Voltage (impedance 5 MOhm) Split core current transducer (impedance 200 kOhm)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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. This documentation is not integrated to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Measurement accuracy	Number of inputs	8 digital 30 V AC/60 V DC
Accuracy class Current + 0.1 % Current + 0.1	<u> </u>	
Class 0.1 active energy conforming to IEC 61557-12 Class 0.1 active energy conforming to IEC 61557-12 Class 0.5 reactive energy conforming to IEC 62053-24 Class 0.5 reactive energy conforming to IEC 62053-24 Class 0.1 voltage conforming to IEC 61557-12 Class 0.1 voltage conforming to IEC 61557-12 Class 0.1 voltage conforming to IEC 61557-12 Class 0.5 power tactor conforming to IEC 61557-12 Class 0.5 power tactor conforming to IEC 61557-12 Number of outputs 4 digital 2 from Crelay Communication port protocol Modeus RTU at 2400115200 bps - 2-wire ION at 2400115200 bps -	Measurement accuracy	
Z form C relay	Accuracy class	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
ION at 2400115200 bps - 2-wire DNP3 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 DNP3 TCP at 10/100 Mbit/s EC 9 1800 Ethernet Modbus TCP/IP daisy chain at 10/100 Mbit/s DNC DNS	Number of outputs	
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 loging 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	Communication port protocol	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
Communication gateway Ethernet/serial	Communication port support	RS485 2 removable screw terminal block
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/Foreasting Event logs Alarm logs Configuration change Power outage User login/logout Data logs GPS synchronisation Sequence of event recording Memory capacity Z 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 EEE 519 Pass/Fail report for EB 50160 ITIC (GBEMA) curve SEMI curve NEMA motor derating curve Alarm notification by e-mail TLS 1, 2 Push historical data via mail Ethernet service Communication service Compliant reports Power quality summary Energy report EcoStruxure Power Events Analysis SMTP e-mail notification SNMP	Port Ethernet	10/100BASE-TX 2 RJ45
IRIG-B NTP SNTP 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 (CSEMA) curve SEMI curve NEMA motor derating curve Alarm notification by e-mail TLS 1.2 Push historical data via mail Ethernet service Communication service Communication service Communication service Communication service Communication service SMI curve Profile Web Services (DPWS) Rapid Scanning Tree Protocol (RSTP) FTP/HTTP/HTTPS Communication service SMIP e-mail notification SNMP	Communication gateway	Ethernet/serial
Min/Max of instantaneous values User-definable data logs Continuous logging or snapshot Trending/Forecasting Event logs Alarm 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 Communication service Compliant reports Power quality summary Energy report EcoStruxure Power Events Analysis SMTP e-mail notification SNMP	Time synchronisation protocol	IRIG-B NTP SNTP
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	Data recording	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
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	Memory capacity	2 GB
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	Cybersecurity	Robust security logs Port hardening Enable/Disable communication ports
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	Web services	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
Power quality summary Energy report EcoStruxure Power Events Analysis SMTP e-mail notification SNMP	Ethernet service	Device Profile Web Services (DPWS) Rapid Scanning Tree Protocol (RSTP)
	Communication service	Power quality summary Energy report EcoStruxure Power Events Analysis SMTP e-mail notification
Tamperproof of settings Protected by sealable cover	Tamperproof of settings	
Mounting support DIN rail		

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	2.4 kg	

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	☑ China RoHS Declaration
RoHS exemption information	₫Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	☑ End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins