METSEION92140

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





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

- 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 distorsion (I THD & U THD)
[Us] rated supply voltage	2060 V DC +/- 10 %
Ride-through time	500 ms 60 V DC typical
Line Rated Current	1 A
	5 A
Type of network	3P + N + E
Power consumption in VA	15 W 2060 V DC
Maximum power consumption in VA	38 W 2060 V DC
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 5 MOhm) 5 external CT 0.3 mOhm)
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 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 2400115200 bps - 2-wire ION 2400115200 bps - 2-wire DNP3 2400115200 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	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	6.30 in (160 mm)
Depth	5.33 in (135.3 mm)
Height	6.30 in (160 mm)
Net Weight	3.31 lb(US) (1.5 kg)

Environment

Electromagnetic compatibility	EMC immunity IEC 62052-11 EMC immunity IEC 61326-1 EMC immunity IEC 61000-6-5 Electrostatic discharge immunity test IEC 61000-4-2 Immunity to radiated fields IEC 61000-4-3 Immunity to fast transients IEC 61000-4-4 Surge immunity test IEC 61000-4-5 Immunity to conducted disturbances IEC 61000-4-6 Immunity to magnetic fields at network frequency IEC 61000-4-8 Immunity to conducted disturbances 2150 kHz CLC/TR 50579 Voltage dips and interruptions immunity test IEC 61000-4-11 Immunity to impulse waves IEC 61000-4-12 Conducted and radiated emissions EN 55011 Conducted and radiated emissionsclass B EN 55032 Conducted and radiated emissionsclass B FCC part 15 Conducted and radiated emissionsclass B ICES-003 Surge withstand ANSI C37.90.1 Surge withstand IEEE C37.90.1
IP degree of protection	Front IP65 Rear IP30
Degree of protection	UL type 12, front
Relative humidity	595 %
Ambient air temperature for operation	-13158 °F (-2570 °C)
Ambient Air Temperature for Storage	-40185 °F (-4085 °C)
Installation category	III
Operating altitude	09842.52 ft (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
Quality labels	UL 61010-1 ISO 9001 ISO 14000

Ordering and shipping details

Category	09761-POWERLOGIC ION 9000 HARDWARE
Discount Schedule	PM1
GTIN	3606481945518
Nbr. of units in pkg.	1
Package weight(Lbs)	8.38 lb(US) (3.8 kg)
Returnability	No

Packing Units

Unit Type of Package 1	PCE	
Package 1 Height	11.81 in (30 cm)	
Package 1 width	11.81 in (30 cm)	
Package 1 Length	16.14 in (41 cm)	

Offer Sustainability

Sustainable offer status	Green Premium product
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
REACh Regulation	☑ REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EEU RoHS Declaration
Mercury free	Yes
RoHS exemption information	€Yes
China RoHS Regulation	China RoHS Declaration
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.