Product data sheet

Specifications

Green Premium™

PowerLogic™ ION9000T meter, HSTC, DIN mount, 192 mm display, B2B adapter, HW kit

METSEION95040

Product availability : Stock - Normally stocked in distribution facility

Main

Range	PowerLogic
Device short name	ION95040
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 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 high-speed transient capture coincidence disturbance waveform capture transient detection (100 ns)
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	90...480 V AC 45...66 Hz +/- 10 % 90...120 V AC 400 Hz +/- 10 %

	110...480 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
Line Rated Current	1 A 5 A
Type of network	3P + N + E
Power consumption in VA	38 VA 480 V AC
Maximum power consumption in VA	80 VA 480 V AC
Display Resolution	800 x 480 pixels
Display Type	Remote LCD display Colour touchscreen
Sampling rate	1024 samples/cycle
Measurement current	0.01…20 A
Input type	voltage 5 MOhm) 5 external CT 0.3 mOhm)
Measurement voltage	57…400 V AC 42...69 Hz between phase and neutral 100…690 V AC 42...69 Hz between phases 10 kV AC transient
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

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	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	6.30 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 2...150 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	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	09761-POWERLOGIC ION 9000 HARDWARE
Discount Schedule	PM1
GTIN	3606481352354
Returnability	Yes

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.61 in (29.5 cm)
Package 1 Width	10.39 in (26.4 cm)
Package 1 Length	14.88 in (37.8 cm)
Package 1 Weight	7.94 lb(US) (3.6 kg)

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 EU RoHS Declaration
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.

Recommended replacement(s)