

# Product data sheet

Specifications



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

METSEION93130

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

**Price\* : 13,752.66 USD**

### Main

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

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	20...60 V DC +/- 10 %
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

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

<b>Maximum power consumption in VA</b>	38 W 20...60 V DC
<b>Display type</b>	Without Display
<b>Sampling rate</b>	1024 samples/cycle
<b>Input type</b>	voltage 5 MOhm) 5 split core current transducer 200 kOhm)
<b>Measurement voltage</b>	57...400 V AC 42...69 Hz between phase and neutral 100...690 V AC 42...69 Hz between phases
<b>Frequency measurement range</b>	20...450 Hz
<b>Number of inputs</b>	8 digital 30 V AC/60 V DC
<b>Measurement accuracy</b>	Voltage +/- 0.1 % Current +/- 0.1 %
<b>Accuracy class</b>	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
<b>Number of Outputs</b>	4 digital 2 form C relay
<b>Communication port protocol</b>	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
<b>Communication port support</b>	2 RS485 removable screw terminal block
<b>Port Ethernet</b>	10/100BASE-TX 2 RJ45
<b>Communication gateway</b>	Ethernet/serial
<b>Time synchronisation protocol</b>	GPS IRIG-B NTP SNTP PTP
<b>Data recording</b>	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
<b>Memory capacity</b>	2 GB
<b>Cybersecurity</b>	Syslog protocol support Robust security logs Port hardening Enable/disable communication ports Hardware metrology lock
<b>Web services</b>	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
<b>Ethernet service</b>	DHCP client

<b>Communication service</b>	Compliant reports Power quality summary Energy report EcoStruxure Power Events Analysis SMTP e-mail notification SNMP
<b>Tamperproof of settings</b>	Protected by sealable cover
<b>Mounting support</b>	DIN rail
<b>Electrical insulation class</b>	Class III EN/IEC 62052-11
<b>Isolation voltage</b>	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
<b>Width</b>	6.30 in (160 mm)
<b>Depth</b>	5.33 in (135.3 mm)
<b>Height</b>	6.30 in (160 mm)
<b>Net weight</b>	3.31 lb(US) (1.5 kg)

## Environment

<b>Electromagnetic compatibility</b>	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
<b>IP degree of protection</b>	Front IP65 Rear IP30
<b>Degree of protection</b>	UL type 12, front
<b>Relative humidity</b>	5...95 %
<b>Ambient air temperature for operation</b>	-13...158 °F (-25...70 °C)
<b>Ambient Air Temperature for Storage</b>	-40...185 °F (-40...85 °C)
<b>Installation category</b>	III
<b>Operating altitude</b>	0...9842.52 ft (0...3000 m)
<b>Standards</b>	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
<b>Quality labels</b>	ISO 9001 ISO 14000

## Ordering and shipping details

Category	09761 - POWERLOGIC ION 9000 HARDWARE
Discount Schedule	PM1
GTIN	3606481945525
Nbr. of units in pkg.	1
Package weight(Lbs)	5.29 lb(US) (2.4 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> "
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.