

# Product datasheet

Specifications



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

METSEION95040

**Price: 188,578.45 ZAR**

### Main

Range	PowerLogic
Product or component type	Energy and power quality meter
Device short name	ION95040
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 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 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 distortion (I THD & U THD)

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

<b>[Us] rated supply voltage</b>	90...480 V AC 45...66 Hz +/- 10 % 90...120 V AC 400 Hz +/- 10 % 110...480 V DC +/- 10 %
<b>Network frequency</b>	50 Hz 60 Hz
<b>Ride-through time</b>	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
<b>[In] rated current</b>	1 A 5 A
<b>type of network</b>	3P + N + E
<b>Power consumption in VA</b>	38 VA at 480 V AC
<b>Maximum power consumption in VA</b>	80 VA at 480 V AC
<b>Display resolution</b>	800 x 480 pixels
<b>Display type</b>	Remote LCD display Colour touchscreen
<b>Sampling rate</b>	1024 samples/cycle
<b>Measurement current</b>	0.01...20 A
<b>input type</b>	Voltage (impedance 5 MOhm) External CT (impedance 0.3 mOhm)5 x
<b>Measurement voltage</b>	57...400 V AC 42...69 Hz between phase and neutral 100...690 V AC 42...69 Hz between phases 10 kV AC transient
<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 conforming to IEC 62053-22 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 Class 0.5 power factor conforming to IEC 61557-12
<b>Number of outputs</b>	4 digital 2 form C relay output
<b>Communication port protocol</b>	Modbus RTU at 2400...115200 bps - 2-wire ION at 2400...115200 bps - 2-wire DNP3 at 2400...115200 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 DLMS
<b>Communication port support</b>	RS485 2 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>	<ul style="list-style-type: none"> <li>Time stamping</li> <li>Min/max of instantaneous values</li> <li>User-definable data logs</li> <li>Continuous logging or snapshot</li> <li>Trending/forecasting</li> <li>Event logs</li> <li>Alarm logs</li> <li>Configuration change</li> <li>Power outage</li> <li>User login/logout</li> <li>Data logs</li> <li>GPS synchronisation</li> <li>Sequence of event recording</li> </ul>
<b>Memory capacity</b>	2 GB
<b>Cybersecurity</b>	<ul style="list-style-type: none"> <li>Syslog protocol support</li> <li>Robust security logs</li> <li>Port hardening</li> <li>Enable/disable communication ports</li> <li>Hardware metrology lock</li> </ul>
<b>Web services</b>	<ul style="list-style-type: none"> <li>Viewing of captured waveform</li> <li>Web page</li> <li>Pass/fail report for IEEE 519</li> <li>Pass/fail report for EN 50160</li> <li>ITIC (CBEMA) curve</li> <li>SEMI curve</li> <li>NEMA motor derating curve</li> <li>Alarm notification by e-mail</li> <li>TLS 1.2</li> <li>Push historical data via mail</li> </ul>
<b>Ethernet service</b>	<ul style="list-style-type: none"> <li>DHCP client</li> <li>Device Profile Web Services (DPWS)</li> <li>Rapid Scanning Tree Protocol (RSTP)</li> <li>FTP/HTTP/HTTPS</li> </ul>
<b>Communication service</b>	<ul style="list-style-type: none"> <li>Compliant reports</li> <li>Power quality summary</li> <li>Energy report</li> <li>EcoStruxure Power Events Analysis</li> <li>SMTP e-mail notification</li> <li>SNMP</li> </ul>
<b>Tamperproof of settings</b>	Protected by sealable cover
<b>Mounting support</b>	<ul style="list-style-type: none"> <li>DIN rail meter device</li> <li>Door cut-out remote display</li> </ul>
<b>Electrical insulation class</b>	Class III conforming to EN/IEC 62052-11
<b>Isolation voltage</b>	<ul style="list-style-type: none"> <li>III400...690 V conforming to EN 61010-1:ed. 3</li> <li>III347...600 V conforming to UL 61010-1:ed. 3</li> <li>III347...600 V conforming to CSA C22.2 No 61010-1:ed. 3</li> </ul>
<b>Width</b>	160 mm
<b>Depth</b>	135.3 mm
<b>Height</b>	160 mm
<b>Net weight</b>	1.5 kg
<b>Market segment</b>	<ul style="list-style-type: none"> <li>Data center</li> <li>Healthcare</li> <li>Semiconductor</li> <li>Pharmaceutical</li> <li>Chemical</li> <li>Energy</li> <li>Mining</li> </ul>

## Environment

<b>Electromagnetic compatibility</b>	<p>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</p>
<b>IP degree of protection</b>	<p>IP65 front:  IP30 rear:</p>
<b>Degree of protection</b>	UL type 12, front
<b>Relative humidity</b>	5...95 %
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Installation category</b>	III
<b>Operating altitude</b>	0...3000 m
<b>Standards</b>	<p>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</p>
<b>Quality labels</b>	<p>ISO 9001  ISO 14000</p>

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	26.500 cm
<b>Package 1 Width</b>	26.300 cm
<b>Package 1 Length</b>	36.000 cm
<b>Package 1 Weight</b>	3.631 kg
<b>Unit Type of Package 2</b>	CAR
<b>Number of Units in Package 2</b>	2
<b>Package 2 Height</b>	32.000 cm
<b>Package 2 Width</b>	39.500 cm
<b>Package 2 Length</b>	56.700 cm

<b>Package 2 Weight</b>	7.920 kg
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	8
<b>Package 3 Height</b>	74.000 cm
<b>Package 3 Width</b>	60.000 cm
<b>Package 3 Length</b>	80.000 cm
<b>Package 3 Weight</b>	41.680 kg

## **Contractual warranty**

<b>Warranty (in months)</b>	18
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## 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 878

Environmental Disclosure [Product Environmental Profile](#)

## Use Better



### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic No

[EU RoHS Directive](#) Compliant with Exemptions

SCIP Number 593f15dc-c512-4cf6-ac2d-78a614f80e12

REACH Regulation [REACH Declaration](#)

## Use Longer



### Lifetime extension

Repair No

## Use Again



### Repack and remanufacture

End of life manual availability [End of Life Information](#)

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