

# Product datasheet

Specifications



## energy sensor, PowerTag Rope 2000A 3P/3P+N top and bottom position

A9MEM1593

**Price: 10,836.29 ZAR**

### Main

Range of product	PowerLogic
Product name	PowerTag R2000
Product or component type	Energy sensor
Poles	3P 3P + N
Maximum current [Imax]	2000 A
[Ib] Basic current	300 A
Starting current	1200 mA
Saturation current	4000 A
Product specific application	Energy management Overload alarm Power factor Load monitoring Circuit monitoring
Concentrator compatibility	EcoStruxure Panel Server Entry EcoStruxure Panel Server Universal EcoStruxure Panel Server Advanced Harmony Hub Acti9 PowerTag Link Acti9 PowerTag Link HD
Range compatibility	Masterpact MasterPact MTZ for switch disconnecter Masterpact MasterPact NW Masterpact MasterPact NT Compact NS Compact NS100 Compact NS Compact NS250 Compact NS Compact NS400 Compact NS Compact NS630 Acti9 TeSys
Type of measurement	Active and reactive energy Apparent energy Active and reactive power Apparent power Current Voltage Power factor Internal temperature Frequency
Accuracy class	Class 1 active energy conforming to IEC 61557-12 Class 2 reactive energy conforming to IEC 61557-12 Class 2 apparent energy conforming to IEC 61557-12 Class 1 active power conforming to IEC 61557-12 Class 2 reactive power conforming to IEC 61557-12 Class 2 apparent power conforming to IEC 61557-12 Class 1 current conforming to IEC 61557-12 Class 0.5 voltage conforming to IEC 61557-12 Class 1 power factor conforming to IEC 61557-12 Class 0.5 frequency conforming to IEC 61557-12

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

<b>Metering type</b>	Active energy E -a- IN/OUT 0...281 x 10exp(9) kWh at total per phase Active energy E -a- IN/OUT 0...281 x 10exp(9) kWh at partial per phase Active energy E -a- IN/OUT 0...281 x 10exp(9) kWh at 3-phase total Active energy E -a- IN/OUT 0...281 x 10exp(9) kWh at 3-phase partial Reactive energy E -rA- IN/OUT 0...281 x 10exp(9) kVARh at total per phase Reactive energy E -rA- IN/OUT 0...281 x 10exp(9) kVARh at partial per phase Reactive energy E -rA- IN/OUT 0...281 x 10exp(9) kVARh at 3-phase total Reactive energy E -rA- IN/OUT 0...281 x 10exp(9) kVARh at 3-phase partial Apparent energy E -apA- 0...281 x 10exp(9) kVAh at total per phase Apparent energy E -apA- 0...281 x 10exp(9) kVAh at partial per phase Apparent energy E -apA- 0...281 x 10exp(9) kVAh at 3-phase total Apparent energy E -apA- 0...281 x 10exp(9) kVAh at 3-phase partial Active power P, P1, P2, P3 Reactive power Q, Q1, Q2, Q3 Apparent power S, S1, S2, S3 Current I1, I2, I3 Calculated neutral current Voltage U12, U23, U31 Voltage V1N, V2N, V3N Frequency 45...65 Hz Power factor at per phase Power factor at total
<b>Mounting location</b>	Top or bottom
<b>Mounting support</b>	Busbar Cables
<b>Product destination</b>	Switchboard
<b>Event management</b>	Voltage loss with measured current at voltage loss
<b>Transmission support medium</b>	Radio frequency 2.4...2.4835 GHz conforming to IEEE 802.15.4
<b>Emission power</b>	10 mW

## Complementary

<b>Form factor</b>	Rope
<b>Mounting mode</b>	Clip-on (DIN rail)
<b>Electrical connection (voltage sensing &amp; power supply)</b>	Removable spring terminal block
<b>Cable cross section</b>	1 rigid cable 0.2...1.5 mm <sup>2</sup> without cable end 1 stranded cable 0.2...2.5 mm <sup>2</sup> without cable end 1 stranded cable 0.25...1.5 mm <sup>2</sup> with cable end
<b>Wire stripping length</b>	11 mm
<b>Cable length</b>	1 m for sensor
<b>current sensor diameter</b>	Closed: 100 mm
<b>supply voltage</b>	100...277 V AC, +/- 20 %, phase to neutral 173...480 V AC, +/- 20 %, phase to phase
<b>Network frequency</b>	50 Hz 60 Hz
<b>Maximum power consumption</b>	3 VA
<b>Standards</b>	IEC 61557-12 IEC 61010-1 ETSI EN 301 489-1 IEC 61010-2-030 IEC 61326-1 ETSI EN 300 328
<b>Product certifications</b>	UL listed IEC DNV Marine
<b>Number of 9mm pitches on Din rail</b>	2
<b>Height</b>	Base unit: 105 mm
<b>Width</b>	Base unit: 18 mm

Depth	Base unit: 67.5 mm
Colour	White (RAL 9003)

## Environment

Maximum conductor temperature	105 °C
Quality labels	CE
Directives	2014/53/EU - radio equipment directive
Operating altitude	0...2000 m
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Overvoltage category	IV conforming to IEC 61010-1
Measurement category	Category IV conforming to IEC 61010-2-030
IP degree of protection	IP20 conforming to IEC 60529
IK degree of protection	IK05
Pollution degree	3
Relative humidity	0...95 % at 55 °C conforming to IEC 60721-3-3
Vibration resistance	3M4 conforming to IEC 60721-3-3
Electromagnetic compatibility	Industrial electromagnetic environment conforming to IEC 61326-1 Radiated EMC conforming to ETSI EN 301 489-17 Electromagnetic emission conforming to IEC 62311
environmental characteristics	Indoor use

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.300 cm
Package 1 Width	17.500 cm
Package 1 Length	20.000 cm
Package 1 Weight	562.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	7
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.434 kg

## Contractual warranty

Warranty (in months)	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 14

Environmental Disclosure [Product Environmental Profile](#)

## Use Better



### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic Yes

[EU RoHS Directive](#) Compliant with Exemptions

SCIP Number F0b86d46-c262-4e32-a698-df26c6e80ad0

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

Technical Illustration

Dimensions

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