



Main

Range of product	PowerLogic
Product name	PowerTag R1000
Product or component type	Energy sensor
Poles	3P 3P + N
Maximum current [I _{max}]	1000 A
[I _b] basic current	150 A
Starting current	600 mA
Saturation current	2000 A
Product specific application	Energy management Overload alarm Power factor Load monitoring Circuit monitoring
Concentrator compatibility	Acti9 PowerTag Link C Acti9 PowerTag Link Acti9 PowerTag Link HD Harmony Hub
Range compatibility	Masterpact MTZ switch disconnecter Masterpact NW MasterPact NT ComPact NS
Range compatibility	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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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 1 frequency conforming to IEC 61557-12

Metering type	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
Mounting location	Top or bottom
Mounting support	Busbar Cables
Product destination	Switchboard
Event management	Voltage loss with measured current at voltage loss
Transmission support medium	Radio frequency 2.4...2.4835 GHz conforming to IEEE 802.15.4
Maximum emission power	10 mW

Complementary

Mounting mode	Clip-on (DIN rail)
Electrical connection (voltage sensing & power supply)	Removable spring terminal block
Cable cross section	1 rigid cable 0.2...1.5 mm ² without cable end 1 stranded cable 0.2...2.5 mm ² without cable end 1 stranded cable 0.25...1.5 mm ² with cable end
Wire stripping length	11 mm
Cable length	1 m for sensor
Current sensor diameter	Closed: 100 mm
Supply voltage	100...277 V AC, +/- 20 %, phase to neutral 173...480 V AC, +/- 20 %, phase to phase
Network frequency	50 Hz 60 Hz
Maximum power consumption	3 VA
Standards	IEC 61557-12 IEC 61010
Number of 9mm pitches on Din rail	2
Height	Base unit: 105 mm
Width	Base unit: 18 mm
Depth	Base unit: 67.5 mm
Colour	White (RAL 9003)

Environment

Maximum conductor temperature	100 °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
Environmental characteristics	Indoor use

Offer Sustainability

RECh Regulation	RECh Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information