

Product datasheet

Specifications



energy sensor, PowerTag Flex 160A 3P/3P+N top and bottom position

A9MEM1580

EAN Code: 3606481595270

Main

Range Of Product	PowerLogic
Product Name	PowerTag F160
Product Or Component Type	Energy sensor
Poles	3P 3P + N
Maximum Current [Imax]	160 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 EcoStruxure Panel Server Universal EcoStruxure Panel Server Advanced PrismaSet Active
Range Compatibility	Acti9 Acti9 C120 Acti9 Acti9 NG125 ComPact ComPact NSXm TeSys TeSys GV4 ComPact ComPact INS Acti9 Acti9 iSW Acti9 Acti9 iSW-NA Acti9 Acti9 iID PowerPact PowerPact B
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

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

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	Cables
Connection Pitch	27 mm
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
Emission Power	10 mW

Complementary

Mounting Mode	Free mounting
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
Max Power Cable Diameter	17 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 61010-1 ETSI EN 301 487-1 IEC 61010-2-030 IEC 61326-1 ETSI EN 300 328
Height	39 mm
Width	91 mm
Depth	62 mm
Net Weight	80 g
Colour	White (RAL 9003)

Environment

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	-50...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	4.900 cm
Package 1 Width	11.400 cm
Package 1 Length	8.400 cm
Package 1 Weight	135.000 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	24
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.624 kg

Contractual warranty

Warranty	18 months
-----------------	-----------

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

Mercury Free

Rohs Exemption Information Yes

Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant with Exemptions

China Rohs Regulation [China RoHS declaration](#)

Environmental Disclosure [Product Environmental Profile](#)

Circularity Profile [End of Life Information](#)

Dimensions

mm
in

