Product datasheet

Specifications

Green Premium™

power meter PowerLogic PM5110, modbus, up to 15th Harmonic, 1DO 33 alarms

METSEPM5110

Main

Range	PowerLogic
Product Name	PowerLogic PM5000
Device Short Name	PM5110
Product Or Component Type	Power meter

Complementary

Power Quality Analysis	up to the 15th harmonic
Device Application	Power monitoring
Type Of Measurement	Current Voltage Frequency Power factor Energy Active and reactive power
Supply Voltage	90...450 V AC 45...65 Hz 100...300 V DC
Network Frequency	50 Hz 60 Hz
[In] Rated Current	1 A 5 A
Type Of Network	1P + N 3P + N 3P
Maximum Power Consumption In Va	11 VA at 415 V
Ride-Through Time	80 ms 120 V AC typical 100 ms 230 V AC typical 100 ms 415 V AC typical 50 ms 125 V DC typical
Display Type	Monochrome graphic LCD
Display Resolution	128 x 128 pixels
Sampling Rate	64 samples/cycle
Measurement Current	50…8500 mA
Analogue Input Type	Voltage (impedance 5 MOhm) Current (impedance <= 0.3 mOhm)
Measurement Voltage	35…760 V AC 45...65 Hz between phases 20…440 V AC 45...65 Hz between phase and neutral
Frequency Measurement Range	45…65 Hz
Number Of Inputs	0

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

Measurement Accuracy	Active energy +/- 0.5 % Reactive energy +/- 2 % Active power +/- 0.5 % Apparent power +/- 0.5 % Frequency +/- 0.05 % Power factor +/- 0.5 Current +/- 0.5 % Voltage +/- 0.5 % Apparent energy +/- 0.5 % Reactive power +/- 2 %
Accuracy Class	Class 0.5S active energy conforming to IEC 62053-22
Number Of Outputs	1 digital
Communication Port Protocol	Modbus RTU and ASCII at 9.6, 19.2 and 38.4 kbauds even/odd or none - 2 wires, insulation 2500 V JBUS
Communication Port Support	RS485
Data Recording	Time stamping Min/max of instantaneous values
Connections - Terminals	Voltage circuit: screw terminal block4 Control circuit: screw terminal block2 Current transformer: screw terminal block6 Input/output circuit: screw terminal block6 RS485 link: screw terminal block4
Mounting Mode	Flush-mounted
Mounting Support	Framework
Standards	UL 61010-1 EN 50470-3 EN 50470-1 IEC 62053-22:2020 IEC 60529 IEC 62053-24 IEC 61557-12:2015 IEC 62053-23:2020 IEC 62052-11:2020 IEC 62052-31:2015
Product Certifications	CE conforming to IEC 61010-1 CULus conforming to UL 61010-1
Width	96 mm
Depth	72 mm
Height	96 mm
Net Weight	380 g

Environment

Electromagnetic Compatibility	Voltage dips and interruptions immunity test class A conforming to IEC 61000-4-11 Limits for harmonic current emissions class A conforming to IEC 61000-3-2 Electrostatic discharge level 4 conforming to IEC 61000-4-2 Conducted RF disturbances level 3 conforming to IEC 61000-4-6 Magnetic field at power frequency level 4 conforming to IEC 61000-4-8 Conducted and radiated emissions - test level: 150 kHz...80 MHz class B conforming to EN 55022 Immunity to conducted disturbances - test level: 150 kHz...80 MHz conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 Radiated radio-frequency electromagnetic field immunity test conforming to IEC 61000-4-3 Surge immunity test class B conforming to IEC 61000-4-5 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11
Ip Degree Of Protection	IP54 display: conforming to IEC 60529 IP30 rear: conforming to IEC 60529
Relative Humidity	5…95 % at 50 °C non-condensing
Pollution Degree	2

Ambient Air Temperature For Operation	-25…70 °C meter -20…70 °C display -25…-20 °C (with reduced performance) display
Ambient Air Temperature For Storage	-40…85 °C
Operating Altitude	2000 m CAT III

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	11.467 cm
Package 1 Width	12.979 cm
Package 1 Length	12.544 cm
Package 1 Weight	449.0 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	12
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	7.19 kg
Unit Type Of Package 3	P12
Number Of Units In Package 3	288
Package 3 Height	105.0 cm
Package 3 Width	80.0 cm
Package 3 Length	120.0 cm
Package 3 Weight	206.4 kg

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-CO_2 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
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information