

# Product data sheet

Specifications



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

<b>Measurement accuracy</b>	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 %
<b>Accuracy class</b>	Class 0.5S active energy conforming to IEC 62053-22
<b>Number of outputs</b>	1 digital
<b>Communication port protocol</b>	Modbus RTU and ASCII at 9.6, 19.2 and 38.4 kbauds even/odd or none - 2 wires, insulation 2500 V JBUS
<b>Communication port support</b>	RS485
<b>Data recording</b>	Time stamping Min/max of instantaneous values
<b>Connections - terminals</b>	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
<b>mounting mode</b>	Flush-mounted
<b>Mounting support</b>	Framework
<b>Standards</b>	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
<b>Product certifications</b>	CE conforming to IEC 61010-1 CULus conforming to UL 61010-1
<b>Width</b>	96 mm
<b>Depth</b>	72 mm
<b>Height</b>	96 mm
<b>Net weight</b>	380 g

## Environment

<b>Electromagnetic compatibility</b>	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
<b>IP degree of protection</b>	IP54 display: conforming to IEC 60529 IP30 rear: conforming to IEC 60529
<b>Relative humidity</b>	5...95 % at 50 °C non-condensing
<b>Pollution degree</b>	2

<b>Ambient air temperature for operation</b>	-25...70 °C meter -20...70 °C display -25...-20 °C (with reduced performance) display
<b>ambient air temperature for storage</b>	-40...85 °C
<b>Operating altitude</b>	2000 m CAT III

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	11.467 cm
<b>Package 1 Width</b>	12.979 cm
<b>Package 1 Length</b>	12.544 cm
<b>Package 1 Weight</b>	449.0 g
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	12
<b>Package 2 Height</b>	30.0 cm
<b>Package 2 Width</b>	30.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	7.19 kg
<b>Unit Type of Package 3</b>	P12
<b>Number of Units in Package 3</b>	288
<b>Package 3 Height</b>	105.0 cm
<b>Package 3 Width</b>	80.0 cm
<b>Package 3 Length</b>	120.0 cm
<b>Package 3 Weight</b>	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<sub>2</sub> 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	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	<a href="#">End of Life Information</a>
California Proposition 65	WARNING: Cancer and Reproductive Harm - <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>