Product data sheet

Specifications



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

METSEPM5110

Product availability: Stock - Normally stocked in distribution facility

Main

Range	PowerLogic
Product name	PowerLogic PM5000
Product or Component Type	Power meter
Device short name	PM5110

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
[Us] rated supply voltage	90...450 V AC 45...65 Hz 100...300 V DC
Network Frequency	50 Hz 60 Hz
Line Rated Current	1 A 5 A
type of network	1P + N 3P + N 3P
Maximum power consumption in VA	11 VA 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

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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 IEC 62053-22
Number of Outputs	1 digital
Communication port protocol	Modbus RTU and ASCII 9.6, 19.2 and 38.4 kbauds even/odd or none - 2 wires 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	3.8 in (96 mm)
Depth	2.8 in (72 mm)
Height	3.8 in (96 mm)
Net Weight	13.4 oz (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 % 122 °F (50 °C) non-condensing
Pollution degree	2

Ambient air temperature for operation	-13…158 °F (-25…70 °C) meter -4…158 °F (-20…70 °C) display -13…-4 °F (-25…-20 °C) with reduced performance) display
Ambient Air Temperature for Storage	-40…185 °F (-40…85 °C)
Operating altitude	6561.68 ft (2000 m) CAT III

Ordering and shipping details

Category	US10PL109777
Discount Schedule	0PL1
GTIN	3606480613982
Returnability	Yes
Country of origin	IN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	6.299 in (16.000 cm)
Package 1 Width	4.961 in (12.600 cm)
Package 1 Length	4.961 in (12.600 cm)
Package weight(Lbs)	16.861 oz (478.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	13.988 lb(US) (6.345 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	96
Package 3 Height	29.528 in (75.000 cm)
Package 3 Width	23.622 in (60.000 cm)
Package 3 Length	31.496 in (80.000 cm)
Package 3 Weight	136.290 lb(US) (61.820 kg)

Contractual warranty

Warranty (in months)	18

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	**182 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**14 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.1 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**167 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**1 kg CO2 eq.**
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**No**
SCIP Number	**2869ba20-8929-483b-9301-6e9169536ade**
EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold

Use Again

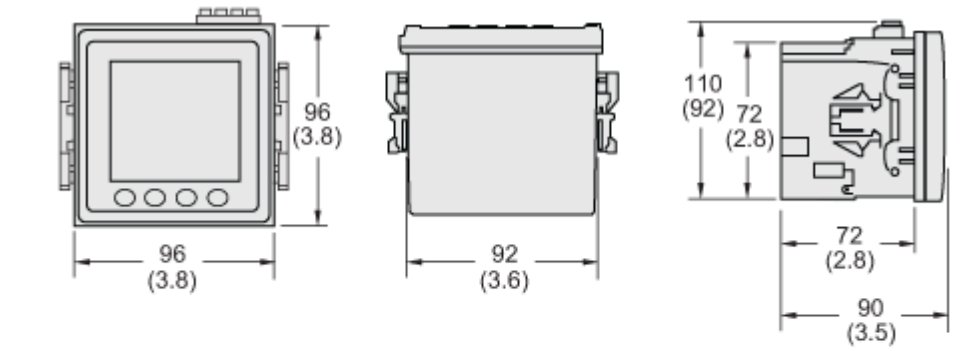
Repack and remanufacture

Recyclability potential, in %	**4**
Circularity Profile	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.**

Dimensions Drawings

Approximate Dimensions

PM5000 Series Meters



PM5000 Series Remote Display

