

# Product datasheet

Specifications



## PM5100 Meter, without communication, up to 15th H, 1DO 33 alarms

Local distributor code:

398144319

METSEPM5100

EAN Code: 3606480621239

### Main

Range	PowerLogic
Product name	PowerLogic PM5000
Device short name	PM5100
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	60 Hz 50 Hz
[In] rated current	5 A 1 A
type of network	3P + N 1P + 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 $\leq$ 0.3 mOhm)
Measurement voltage	35...760 V AC 45...65 Hz between phases 20...400 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 pulse (energy)
<b>Communication port protocol</b>	-
<b>Communication port support</b>	-
<b>Data recording</b>	Min/max of instantaneous values Time stamping
<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>	EN 50470-1 IEC 62053-22:2020 UL 61010-1 IEC 62053-24 IEC 61557-12:2015 EN 50470-3 IEC 60529 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>	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 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 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

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Ambient air temperature for storage	-40...85 °C
Operating altitude	2000 m CAT III

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## Packing Units

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Unit Type of Package 1	PCE
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Number of Units in Package 1	1
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Package 1 Height	12.000 cm
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Package 1 Width	13.000 cm
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Package 1 Length	13.000 cm
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Package 1 Weight	477.000 g
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Unit Type of Package 2	S03
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Number of Units in Package 2	12
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Package 2 Height	30.000 cm
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Package 2 Width	30.000 cm
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Package 2 Length	40.000 cm
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Package 2 Weight	6.331 kg
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Unit Type of Package 3	P06
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Number of Units in Package 3	96
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Package 3 Height	75.000 cm
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Package 3 Width	60.000 cm
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Package 3 Length	80.000 cm
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Package 3 Weight	61.436 kg
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## Logistical informations

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Country of origin	IN
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## Contractual warranty

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Warranty	18 months
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## 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**

Environmental Disclosure [Product Environmental Profile](#)

### Use Better

#### Materials and Substances

Packaging made with recycled cardboard **Yes**

Packaging without single use plastic **No**

[EU RoHS Directive](#) **Compliant with Exemptions**

SCIP Number **2869ba20-8929-483b-9301-6e9169536ade**

REACH Regulation [REACH Declaration](#)

### Use Again

#### Repack and remanufacture

Recyclability potential, in % **4**

End of life manual availability [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**