

# Product datasheet

Specifications



power meter PowerLogic PM5100,  
without communication, up to 15th  
Harmonic, 1DO 33 alarms

METSEPM5100

## 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<br>Voltage<br>Frequency<br>Power factor<br>Energy<br>Active and reactive power                 |
| Supply Voltage                  | 90...450 V AC 45...65 Hz<br>100...300 V DC   |
| Network Frequency               | 60 Hz<br>50 Hz   |
| [In] Rated Current              | 5 A<br>1 A   |
| Type Of Network                 | 3P + N<br>1P + N<br>3P   |
| Maximum Power Consumption In Va | 11 VA at 415 V   |
| Ride-Through Time               | 80 ms 120 V AC typical<br>100 ms 230 V AC typical<br>100 ms 415 V AC typical<br>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)<br>Current (impedance <= 0.3 mOhm)  |
| Measurement Voltage             | 35...760 V AC 45...65 Hz between phases<br>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 %<br>Reactive energy +/- 2 %<br>Active power +/- 0.5 %<br>Apparent power +/- 0.5 %<br>Frequency +/- 0.05 %<br>Power factor +/- 0.5<br>Current +/- 0.5 %<br>Voltage +/- 0.5 %<br>Apparent energy +/- 0.5 %<br>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<br>Time stamping  |
| <b>Connections - Terminals</b>     | Voltage circuit: screw terminal block4<br>Control circuit: screw terminal block2<br>Current transformer: screw terminal block6<br>Input/output circuit: screw terminal block6<br>RS485 link: screw terminal block4  |
| <b>Mounting Mode</b>               | Flush-mounted   |
| <b>Mounting Support</b>            | Framework   |
| <b>Standards</b>                   | EN 50470-1<br>IEC 62053-22:2020<br>UL 61010-1<br>IEC 62053-24<br>IEC 61557-12:2015<br>EN 50470-3<br>IEC 60529<br>IEC 62053-23:2020<br>IEC 62052-11:2020<br>IEC 62052-31:2015  |
| <b>Product Certifications</b>      | CE conforming to IEC 61010-1<br>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<br>Electrostatic discharge level 4 conforming to IEC 61000-4-2<br>Conducted RF disturbances level 3 conforming to IEC 61000-4-6<br>Magnetic field at power frequency level 4 conforming to IEC 61000-4-8<br>Conducted and radiated emissions class B conforming to EN 55022<br>Immunity to conducted disturbances - test level: 150 kHz...80 MHz conforming to IEC 61000-4-6<br>Electrical fast transient/burst immunity test conforming to IEC 61000-4-4<br>Radiated radio-frequency electromagnetic field immunity test conforming to IEC 61000-4-3<br>Surge immunity test conforming to IEC 61000-4-5<br>Voltage dips and interruptions immunity test conforming to IEC 61000-4-11 |
| <b>Ip Degree Of Protection</b>               | IP54 display: conforming to IEC 60529<br>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<br>-20...70 °C display<br>-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>             | 11.0 cm  |
| <b>Package 1 Width</b>              | 12.6 cm  |
| <b>Package 1 Length</b>             | 12.6 cm  |
| <b>Package 1 Weight</b>             | 550.0 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>             | 6.54 kg  |
| <b>Unit Type Of Package 3</b>       | P06      |
| <b>Number Of Units In Package 3</b> | 96       |
| <b>Package 3 Height</b>             | 50.0 cm  |
| <b>Package 3 Width</b>              | 80.0 cm  |
| <b>Package 3 Length</b>             | 60.0 cm  |
| <b>Package 3 Weight</b>             | 61.44 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.

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[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](#)