

# Product datasheet

Specifications



power meter PowerLogic PM5310,  
modbus, up to 31st Harmonic,  
256KB 2DI/2DO 35 alarms

METSEPM5310

## Main

|                           |                   |
|---------------------------|-------------------|
| Range                     | PowerLogic        |
| Product name              | PowerLogic PM5000 |
| Device short name         | PM5310            |
| product or component type | Power meter       |

## Complementary

|                                 |  |
|---------------------------------|--|
| Power quality analysis          | up to the 31st harmonic  |
| Device application              | Multi-tariff<br>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               | 50 Hz<br>60 Hz   |
| [In] rated current              | 1 A<br>5 A   |
| type of network                 | 1P + N<br>3P<br>3P + N   |
| 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             | 5...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...440 V AC 45...65 Hz between phase and neutral          |
| Frequency measurement range     | 45...65 Hz   |
| Number of inputs                | 2 digital  |

|                                    |   |
|------------------------------------|---|
| <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>           | 2 digital   |
| <b>Information displayed</b>       | Tariff (4)  |
| <b>Communication port protocol</b> | Modbus RTU and ASCII at 9.6, 19.2 and 38.4 kbauds even/odd or none - 2 wires,<br>insulation 2500 V<br>JBUS  |
| <b>Communication port support</b>  | RS485   |
| <b>Data recording</b>              | Event logs<br>Min/max of instantaneous values<br>Alarm logs<br>Data logs<br>Time stamping<br>Maintenance logs   |
| <b>Memory capacity</b>             | 256 kB  |
| <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>Relay output: screw terminal block4<br>Ethernet network: RJ45 connector  |
| <b>mounting mode</b>               | Flush-mounted   |
| <b>Mounting support</b>            | Framework   |
| <b>Standards</b>                   | EN 50470-3<br>IEC 62053-24<br>IEC 60529<br>EN 50470-1<br>UL 61010-1<br>IEC 62053-22:2020<br>IEC 61557-12:2015<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>                  | 430 g   |

## Environment

|  |   |
|--|---|
| <b>Electromagnetic compatibility</b>         | <p>Conducted and radiated emissions class A conforming to EN 55011</p> <p>Limits for harmonic current emissions class A conforming to IEC 61000-3-2</p> <p>Immunity to conducted disturbances - test level: 150 kHz...80 MHz level 3 conforming to IEC 61000-4-6</p> <p>Voltage dips and interruptions immunity test level 4 conforming to IEC 61000-4-11</p> <p>Conducted RF disturbances level 3 conforming to IEC 61000-4-6</p> <p>Magnetic field at power frequency level 4 conforming to IEC 61000-4-8</p> <p>Conducted and radiated emissions class B conforming to EN 55022</p> <p>Limitation of voltage changes, voltage fluctuations and flicker in low-voltage conforming to IEC 61000-3-3</p> <p>Electrostatic discharge - test level: 8 kV level 4 conforming to IEC 61000-4-2</p> <p>Radiated radio-frequency electromagnetic field immunity test conforming to IEC 61000-4-3</p> <p>Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4</p> <p>Surge immunity test level 4 conforming to IEC 61000-4-5</p> <p>Voltage dips and interruptions immunity test conforming to IEC 61000-4-11</p> |
| <b>IP degree of protection</b>               | <p>IP54 display: conforming to IEC 60529</p> <p>IP30 rear: conforming to IEC 60529</p>  |
| <b>Relative humidity</b>                     | 5...95 % at 50 °C non-condensing  |
| <b>Pollution degree</b>                      | 2   |
| <b>Ambient air temperature for operation</b> | <p>-25...70 °C meter</p> <p>-20...70 °C display</p> <p>-25...-20 °C (with reduced performance) display</p>  |
| <b>Ambient air temperature for storage</b>   | -40...85 °C   |
| <b>Operating altitude</b>                    | <p>2000 m CAT III</p> <p>3000 m CAT II</p>  |

## 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>             | 492.0 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>             | 6.4 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>             | 156.0 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 [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](#)