

# Product data sheet

Specifications



power meter PowerLogic PM5320,  
ethernet, up to 31st Harmonic,  
256KB 2DI/2DO 35 alarms

METSEPM5320

## Main

|                           |                   |
|---------------------------|-------------------|
| Range                     | PowerLogic        |
| Product Name              | PowerLogic PM5000 |
| Device Short Name         | PM5320            |
| 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 + 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             | 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  |

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 %<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 % |
| Accuracy Class              | Class 0.5S active energy conforming to IEC 62053-22   |
| Number Of Outputs           | 2 digital   |
| Information Displayed       | Tariff (4)  |
| Communication Port Protocol | Modbus TCP/IP at 10/100 Mbit/s, insulation 2500 V<br>BACnet IP  |
| Communication Port Support  | ETHERNET  |
| Data Recording              | Maintenance logs<br>Alarm logs<br>Min/max of instantaneous values<br>Event logs<br>Time stamping<br>Data logs   |
| Memory Capacity             | 256 kB  |
| Connections - Terminals     | 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  |
| Mounting Mode               | Flush-mounted   |
| Mounting Support            | Framework   |
| Standards                   | IEC 62053-22:2020<br>EN 50470-1<br>IEC 60529<br>IEC 61557-12:2015<br>UL 61010-1<br>EN 50470-3<br>IEC 62053-24<br>IEC 62053-23:2020<br>IEC 62052-11:2020<br>IEC 62052-31:2015  |
| Product Certifications      | CE conforming to IEC 61010-1<br>CULus conforming to UL 61010-1  |
| Width                       | 96 mm   |
| Depth                       | 72 mm   |
| Height                      | 96 mm   |
| Net Weight                  | 430 g   |

## Environment

|                                       |   |
|---------------------------------------|---|
| Electromagnetic Compatibility         | Limitation of voltage changes, voltage fluctuations and flicker in low-voltage class A conforming to IEC 61000-3-3<br>Electrostatic discharge - test level: 8 kV level 4 conforming to IEC 61000-4-2<br>Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3<br>Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4<br>Surge immunity test level 4 conforming to IEC 61000-4-5<br>Voltage dips and interruptions immunity test class A conforming to IEC 61000-4-11<br>Limits for harmonic current emissions class A conforming to IEC 61000-3-2<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>Limitation of voltage changes, voltage fluctuations and flicker in low-voltage level 4 conforming to IEC 61000-3-3<br>Radiated radio-frequency electromagnetic field immunity test class B conforming to IEC 61000-4-3 |
| Ip Degree Of Protection               | IP54 display: conforming to IEC 60529<br>IP30 rear: conforming to IEC 60529   |
| Relative Humidity                     | 5...95 % at 50 °C non-condensing  |
| Pollution Degree                      | 2   |
| Ambient Air Temperature For Operation | -25...70 °C meter<br>-20...70 °C display<br>-25...-20 °C (with reduced performance) display   |
| Ambient Air Temperature For Storage   | -40...85 °C   |
| Operating Altitude                    | 2000 m CAT III<br>3000 m CAT II   |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type Of Package 1       | PCE      |
| Number Of Units In Package 1 | 1        |
| Package 1 Height             | 11.0 cm  |
| Package 1 Width              | 12.6 cm  |
| Package 1 Length             | 12.6 cm  |
| Package 1 Weight             | 550.0 g  |
| Unit Type Of Package 2       | S03      |
| Number Of Units In Package 2 | 12       |
| Package 2 Height             | 30.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 7.096 kg |
| Unit Type Of Package 3       | P12      |
| Number Of Units In Package 3 | 288      |
| Package 3 Height             | 105.0 cm |
| Package 3 Width              | 80.0 cm  |
| Package 3 Length             | 120.0 cm |
| Package 3 Weight             | 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   |
| 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>                  |