



## Main

|                           |  |
|---------------------------|--|
| Range                     | PowerLogic   |
| Product name              | PowerLogic PM5000  |
| Device short name         | PM5561   |
| Product or component type | Power meter  |
| Market segment            | Buildings / Large building (Energy Sub feeder Cost management ) in for Billing<br>Datacenter (Energy Main incomer Cost management ) in for Billing<br>Healthcare (Energy Sub feeder Cost management ) in for Billing<br>Buildings / Small building (Energy Main incomer Cost management ) in for Cost allocation<br>Buildings / Large building (Energy Main incomer Cost management ) in for Cost allocation<br>Buildings / Multi-site (Energy Sub feeder Cost management ) in for Cost allocation<br>Healthcare (Energy Main incomer Cost management ) in for Cost allocation<br>Industry (Energy Sub feeder Cost management ) in for Cost allocation<br>Datacenter (Energy Sub feeder in Network management )<br>Buildings / Small building (Energy Sub feeder Cost management ) in for Billing<br>Buildings / Large building (Energy Main incomer Cost management ) in for Billing<br>Buildings / Multi-site (Energy Sub feeder Cost management ) in for Billing<br>Healthcare (Energy Main incomer Cost management ) in for Billing<br>Buildings / Medium building (Energy Sub feeder Cost management ) in for Cost allocation<br>Buildings / Multi-site (Energy Main incomer Cost management ) in for Cost allocation<br>Datacenter (Energy Sub feeder Cost management ) in for Cost allocation<br>Buildings / Medium building (Energy Main incomer in Network management )<br>Buildings / Multi-site (Energy Sub feeder in Network management )<br>Industry (Energy Sub feeder in Network management )<br>Buildings / Medium building (Energy Main incomer Cost management ) in for Billing<br>Datacenter (Energy Sub feeder Cost management ) in for Billing<br>Industry (Energy Main incomer Cost management ) in for Billing<br>Buildings / Small building (Energy Sub feeder Cost management ) in for Cost allocation<br>Datacenter (Energy Main incomer Cost management ) in for Cost allocation<br>Healthcare (Energy Sub feeder Cost management ) in for Cost allocation<br>Buildings / Small building (Energy Main incomer in Network management )<br>Buildings / Medium building (Energy Sub feeder in Network management )<br>Buildings / Small building (Energy Main incomer Cost management ) in for Billing<br>Buildings / Medium building (Energy Sub feeder Cost management ) in for Billing<br>Buildings / Multi-site (Energy Main incomer Cost management ) in for Billing<br>Industry (Energy Sub feeder Cost management ) in for Billing<br>Buildings / Medium building (Energy Main incomer Cost management ) in for Cost allocation<br>Buildings / Large building (Energy Sub feeder Cost management ) in for Cost allocation<br>Industry (Energy Main incomer Cost management ) in for Cost allocation |

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

## Complementary

|                             |   |
|-----------------------------|---|
| Power quality analysis      | Up to the 63rd harmonic   |
| Device application          | Power monitoring<br>WAGES metering<br>Multi-tariff<br>Gateway   |
| Type of measurement         | Energy<br>Active and reactive power<br>Voltage<br>Current<br>Frequency<br>Power factor  |
| [Us] rated supply voltage   | 125...250 V DC<br>100...480 V AC (45...65 Hz)   |
| Network frequency           | 50 Hz<br>60 Hz  |
| [In] rated current          | 1 A<br>5 A  |
| Poles description           | 3P<br>3P + N<br>1P + N  |
| Power consumption in VA     | 10 VA at 480 V  |
| Display type                | Backlit LCD   |
| Display resolution          | 128 x 128 pixels  |
| Sampling rate               | 128 samples/cycle   |
| Measurement current         | 5...10000 mA  |
| Analogue input type         | Current (impedance 0.3 mOhm)<br>Voltage (impedance 5 MOhm)  |
| Measurement voltage         | 20...400 V AC 45...65 Hz between phase and neutral<br>20...690 V AC 45...65 Hz between phases   |
| Frequency measurement range | 45...65 Hz  |
| Number of inputs            | 4 digital   |
| Measurement accuracy        | +/- 0.5 % apparent power<br>+/- 0.05 % frequency<br>+/- 0.2 % active energy<br>+/- 1 % reactive energy<br>+/- 0.2 % active power<br>+/- 0.1 % voltage<br>+/- 0.05 % power factor<br>+/- 0.15 °C current |
| Accuracy class              | Class 0.2S (active energy according to IEC 62053-22)  |
| Number of outputs           | 2 digital   |
| Information displayed       | Tariff 8  |
| Communication port protocol | Modbus RTU and ASCII 2 wires, : 9.6, 19.2 and 38.4 kbauds, even/odd or none, insulation: 2500 V<br>JBUS<br>Modbus TCP/IP : 10/100 Mbit/s, insulation: 2500 V<br>Ethernet Modbus TCP/IP daisy chain      |
| Communication port support  | RS485<br>Ethernet   |
| Communication gateway       | Ethernet/Serial   |
| Data recording              | Event logs<br>Time stamping<br>Maintenance logs<br>Alarm logs<br>Min/Max of instantaneous values<br>Data logs   |
| Memory capacity             | 1.1 MB  |
| Web services                | Real time viewing of data<br>Web server   |

|                         |  |
|-------------------------|--|
|                         | Diagnostic via predefined web pages<br>Alarm notification by e-mail  |
| Ethernet service        | SNTP client<br>SNMP-Traps  |
| Connections - terminals | Voltage circuit: 4 screw terminal block<br>Control circuit: 2 screw terminal block<br>Current transformer: 6 screw terminal block<br>RS485 link: 4 screw terminal block<br>Digital input: 8 screw terminal block<br>Digital output: 4 screw terminal block<br>Ethernet network: 2 RJ45 connector |
| Mounting mode           | Flush-mounted  |
| Mounting support        | Framework  |
| Standards               | IEC 62053-24<br>EN 50470-1<br>IEC 62053-22<br>EN 50470-3<br>UL 61010-1<br>IEC 61557-12<br>IEC 60529  |
| Product certifications  | CE conforming to IEC 61010-1<br>CULus conforming to UL 61010-1<br>MID conforming to EN 50470-1<br>MID conforming to EN 50470-3   |
| Width                   | 96 mm  |
| Depth                   | 72 mm  |
| Height                  | 96 mm  |
| Product weight          | 450 g  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Electromagnetic compatibility         | <ul style="list-style-type: none"> <li>• conducted and radiated emissions class class B, conforming to EN 55022</li> <li>• limitation of voltage changes, voltage fluctuations and flicker in low-voltage, conforming to IEC 61000-3-3</li> <li>• limits for harmonic current emissions class class A, conforming to IEC 61000-3-2</li> <li>• conducted RF disturbances class level 3, conforming to IEC 61000-4-6</li> <li>• magnetic field at power frequency class level 4, conforming to IEC 61000-4-8</li> <li>• electrostatic discharge class level 4 (8 kV ), conforming to IEC 61000-4-2</li> <li>• radiated radio-frequency electromagnetic field immunity test, conforming to IEC 61000-4-3</li> <li>• electrical fast transient/burst immunity test class level 4, conforming to IEC 61000-4-4</li> <li>• surge immunity test class level 4, conforming to IEC 61000-4-5</li> <li>• voltage dips and interruptions immunity test, conforming to IEC 61000-4-11</li> </ul> |
| IP degree of protection               | IP52 (front) conforming to IEC 60529<br>IP30 (body) conforming to IEC 60529  |
| Relative humidity                     | 5...95 % 50 °C   |
| Pollution degree                      | 2  |
| Ambient air temperature for operation | -25...70 °C  |
| Ambient air temperature for storage   | -40...85 °C  |
| Operating altitude                    | 3000 m   |

## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 1340 - Schneider Electric declaration of conformity<br><a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold<br><a href="#">Reference not containing SVHC above the threshold</a>                |
| Product environmental profile    | Available<br><a href="#">Product environmental</a>  |
| Product end of life instructions | Available<br><a href="#">End of life manual</a>   |