



## Main

|                           |                   |
|---------------------------|-------------------|
| Range                     | PowerLogic        |
| Product name              | PowerLogic PM8000 |
| Device short name         | PM8243            |
| Product or component type | Power meter       |

## Complementary

|                             |   |
|-----------------------------|---|
| Power quality analysis      | Power quality monitoring IEC 62586<br>Programmability (logic and math functions)<br>Voltage sag and swell detection<br>Waveform capture<br>Harmonic distortion<br>Up to the 63rd harmonic<br>Power quality measurement IEC 61000-4-30 : class S<br>Compliance report EN 50160 |
| Device application          | WAGES metering<br>Power monitoring  |
| Type of measurement         | Power factor (per phase, rms)<br>Apparent power (per phase, rms)<br>Active and reactive power (per phase, rms)<br>Power factor (total)<br>Apparent power (total)<br>Active and reactive power (total)<br>Frequency<br>Voltage<br>Current                                      |
| Supply voltage              | 120...300 V DC +/- 10 %<br>90...415 V AC +/- 10 % (45...65 Hz)  |
| Network frequency           | 50 Hz<br>60 Hz  |
| [In] rated current          | 1 A<br>10 A<br>5 A  |
| Poles description           | 1P + N<br>3P<br>3P + N  |
| Power consumption in VA     | 18...36 VA at 415 V AC  |
| Display type                | Without display   |
| Sampling rate               | 256 samples/cycle   |
| Measurement current         | 50 mA...10 A  |
| Analogue input type         | Voltage (impedance 5 MOhm)<br>Current (impedance 0.3 mOhm)  |
| Measurement voltage         | 100...690 V AC 42...69 Hz between phases<br>57...400 V AC 42...69 Hz between phase and neutral  |
| Frequency measurement range | 42...69 Hz  |
| Number of inputs            | 3 digital 60 V DC<br>3 digital 30 V AC  |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                             |  |
|-----------------------------|--|
| Measurement accuracy        | +/- 0.2 % active energy<br>+/- 0.1 % voltage<br>+/- 0.1 % current  |
| Accuracy class              | Class 0.2 (current according to IEC 61557-12)<br>Class 0.2 (voltage according to IEC 61557-12)<br>Class 0.5 (power factor according to IEC 61557-12)<br>Class 0.5S (reactive energy according to IEC 62053-24)<br>Class 0.2 (active power according to IEC 61557-12)<br>Class 0.2 (active energy according to ANSI C12.20)<br>Class 0.2S (active energy according to IEC 62053-22) |
| Number of outputs           | 1 pulse  |
| Information displayed       | Harmonic distortion<br>Energy consumption<br>Power<br>Frequency<br>Current<br>Voltage  |
| Communication port protocol | RSTP 801.1d 2004<br>Ethernet Modbus TCP/IP daisy chain : 10/100 Mbit/s,<br>Modbus TCP/IP<br>IEC 61850<br>DNP3<br>ION 2-wire, : 115 kbauds,<br>Modbus RTU 2-wire, : 115 kbauds,   |
| Communication port support  | RS485 (screw terminal block)<br>Ethernet   |
| Data recording              | Data logs<br>Event logs<br>Min/Max of instantaneous values<br>Sequence of event recording<br>Time stamping<br>Trending/Forecasting<br>GPS synchronisation<br>Alarm logs<br>Harmonics logs<br>Sag and swell logs<br>Waveform logs   |
| Memory capacity             | 512 MB   |
| Web services                | Alarm notification by e-mail<br>File upload/download via FTP<br>HTTP server<br>Customizable home page  |
| Communication service       | NTP time synchronization<br>SMTP e-mail notification<br>SNMP<br>RSTP support   |
| Mounting mode               | Clip-on  |
| Mounting support            | DIN rail   |
| Installation category       | III  |
| Safety Construction         | CSA C22.2 No 61010-1 : CAT III, 347...600 V ed. 3<br>UL 61010-1 : CAT III, 347...600 V ed. 3<br>EN 61010-1 : CAT III, 400...690 V ed. 3<br>IEC 61010-1 : CAT III, 400...690 V ed. 3  |
| Standards                   | IEC 61557-12<br>IEC 62053-22<br>IEC 62052-11<br>IEC 62053-24   |
| Product certifications      | China RoHS<br>N998<br>CULus<br>CE  |
| Width                       | 90.5 mm  |
| Depth                       | 90.8 mm  |
| Height                      | 90.5 mm  |
| Product weight              | 528 g  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Electromagnetic compatibility         | <ul style="list-style-type: none"><li>• surge withstand, conforming to IEEE C37.90.1</li><li>• conducted RF disturbances 2...150 Hz, conforming to CLC/TR 50579</li><li>• conducted and radiated emissions, conforming to ICES-003</li><li>• conducted and radiated emissions, conforming to FCC Part 15</li><li>• conducted and radiated emissions, conforming to EN 55011</li><li>• conducted and radiated emissions, conforming to EN 55022</li><li>• immunity to impulse waves, conforming to IEC 61000-4-12</li><li>• voltage dips and interruptions immunity test, conforming to IEC 61000-4-11</li><li>• magnetic field at power frequency, conforming to IEC 61000-4-8</li><li>• conducted RF disturbances, conforming to IEC 61000-4-6</li><li>• surge immunity test, conforming to IEC 61000-4-5</li><li>• electrical fast transient/burst immunity test, conforming to IEC 61000-4-4</li><li>• radiated radio-frequency electromagnetic field immunity test, conforming to IEC 61000-4-3</li><li>• electrostatic discharge, conforming to IEC 61000-4-2</li></ul> |
| IP degree of protection               | IP30 conforming to IEC 60529   |
| Relative humidity                     | 5...95 %   |
| 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 1425 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product environmental profile    | Available   |
| Product end of life instructions | Available   |