



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 | Energy Active and reactive power Voltage Current Frequency Power factor |
| [Us] rated supply voltage | 100...415 V AC (45...65 Hz) 125...250 V DC |
| Network frequency | 50 Hz 60 Hz |
| [In] rated current | 1 A 5 A |
| Poles description | 1P + N 3P 3P + N |
| Power consumption in VA | 10 VA at 415 V |
| Display type | Backlit LCD |
| Display resolution | 128 x 128 pixels |
| Sampling rate | 64 samples/cycle |
| Measurement current | 10...9000 mA |
| Analogue input type | Current (impedance 0.3 mOhm) Voltage (impedance 5 MOhm) |
| Measurement voltage | 35...690 V AC 45...65 Hz between phases |

20...400 V AC 45...65 Hz between phase and neutral

| | |
|-----------------------------|--|
| Frequency measurement range | 45...65 Hz |
| Number of inputs | 0 |
| Measurement accuracy | +/- 0.5 % active energy +/- 2 % reactive energy +/- 0.5 % active power +/- 0.5 % apparent power +/- 0.05 % frequency +/- 0.005 % power factor +/- 0.5 % current +/- 0.5 % voltage |
| Accuracy class | Class 0.5S (active energy according to IEC 62053-22) |
| Number of outputs | 1 digital |
| Communication port protocol | - |
| Communication port support | - |
| Data recording | Min/Max of instantaneous values Time stamping |
| Mounting mode | Flush-mounted |
| Mounting support | Framework |
| Standards | IEC 62053-22 IEC 62053-24 IEC 60529 IEC 61557-12 EN 50470-3 UL 61010-1 EN 50470-1 |
| Product certifications | CE conforming to IEC 61010-1 CULus conforming to UL 61010-1 |
| Width | 96 mm |
| Depth | 72 mm |
| Height | 96 mm |
| Product weight | 380 g |

Environment

| | |
|---------------------------------------|--|
| Electromagnetic compatibility | <ul style="list-style-type: none">• conducted and radiated emissions class class B, conforming to EN 55022• limits for harmonic current emissions class class A, conforming to IEC 61000-3-2• electrostatic discharge class level 4, conforming to IEC 61000-4-2• conducted RF disturbances class level 3, conforming to IEC 61000-4-6• magnetic field at power frequency class level 4, conforming to IEC 61000-4-8 |
| IP degree of protection | IP52 (front) conforming to IEC 60529 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 1321 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |