



## 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          | Power monitoring<br>Multi-tariff                                                                                                                                                                       |
| Type of measurement         | Active and reactive power<br>Energy<br>Power factor<br>Frequency<br>Voltage<br>Current                                                                                                                 |
| Supply voltage              | 125...250 V DC<br>100...415 V AC (45...65 Hz)                                                                                                                                                          |
| 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                                                                                                                                                                                 |
| 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 mA...9 A                                                                                                                                                                                            |
| Analogue input type         | Voltage (impedance 5 MOhm)<br>Current (impedance 0.3 mOhm)                                                                                                                                             |
| Measurement voltage         | 20...400 V AC 45...65 Hz between phase and neutral<br>35...690 V AC 45...65 Hz between phases                                                                                                          |
| Frequency measurement range | 45...65 Hz                                                                                                                                                                                             |
| Number of inputs            | 2 digital                                                                                                                                                                                              |
| Measurement accuracy        | +/- 0.5 % voltage<br>+/- 0.5 % current<br>+/- 0.005 % power factor<br>+/- 0.05 % frequency<br>+/- 0.5 % apparent power<br>+/- 0.5 % active power<br>+/- 2 % reactive energy<br>+/- 0.5 % active energy |
| Accuracy class              | Class 0.5S (active energy according to IEC 62053-22)                                                                                                                                                   |
| Number of outputs           | 2 digital                                                                                                                                                                                              |
| Information displayed       | Tariff 4                                                                                                                                                                                               |
| Communication port protocol | Modbus TCP/IP : 10/100 Mbit/s, insulation: 2500 V                                                                                                                                                      |

|                            |                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------|
| Communication port support | Ethernet                                                                                                      |
| Data recording             | Data logs<br>Event logs<br>Min/Max of instantaneous values<br>Time stamping<br>Alarm logs<br>Maintenance logs |
| Memory capacity            | 256 kB                                                                                                        |
| Mounting mode              | Flush-mounted                                                                                                 |
| Mounting support           | Framework                                                                                                     |
| Standards                  | IEC 60529<br>IEC 61557-12<br>IEC 62053-22<br>EN 50470-1<br>EN 50470-3<br>UL 61010-1<br>IEC 62053-24           |
| Product certifications     | CULus conforming to UL 61010-1<br>CE conforming to IEC 61010-1                                                |
| Width                      | 96 mm                                                                                                         |
| Depth                      | 72 mm                                                                                                         |
| Height                     | 96 mm                                                                                                         |
| Product weight             | 430 g                                                                                                         |

## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electromagnetic compatibility         | <ul style="list-style-type: none"> <li>• conducted and radiated emissions class class B, conforming to EN 55022</li> <li>• magnetic field at power frequency class level 4, conforming to IEC 61000-4-8</li> <li>• conducted RF disturbances class level 3, conforming to IEC 61000-4-6</li> <li>• electrostatic discharge class level 4, conforming to IEC 61000-4-2</li> <li>• limits for harmonic current emissions class class A, conforming to IEC 61000-3-2</li> </ul> |
| IP degree of protection               | IP30 (body) conforming to IEC 60529<br>IP52 (front) 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                    | 2000 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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