



## Main

|                           |                   |
|---------------------------|-------------------|
| Range                     | PowerLogic        |
| Product name              | PowerLogic PM5000 |
| Device short name         | PM5310R           |
| 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             | Current<br>Voltage<br>Frequency<br>Power factor<br>Energy<br>Active and reactive power |
| Supply voltage                  | 100...415 V AC 45...65 Hz<br>125...250 V DC  |
| Network frequency               | 50 Hz<br>60 Hz   |
| [In] rated current              | 5 A<br>1 A   |
| Type of network                 | 1P + N<br>3P<br>3P + N   |
| Maximum power consumption in VA | 10 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           |
| Display type                    | Backlit LCD  |
| Display resolution              | 128 x 128 pixels   |
| Sampling rate                   | 64 samples/cycle   |

|                             |  |
|-----------------------------|--|
| Measurement current         | 10...9000 mA   |
| Analogue input type         | Voltage (impedance 5 MOhm)<br>Current (impedance 0.3 MOhm)   |
| Measurement voltage         | 35...690 V AC 45...65 Hz between phases<br>20...400 V AC 45...65 Hz between phase and neutral  |
| Frequency measurement range | 45...65 Hz   |
| Number of inputs            | 2 digital  |
| 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 +/- 0.005 %<br>Current +/- 0.5 %<br>Voltage +/- 0.5 %   |
| 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 RTU and ASCII at 9.6, 19.2 and 38.4 kbauds even/odd or none - 2 wires, insulation 2500 V<br>JBUS  |
| Communication port support  | RS485  |
| Data recording              | Maintenance logs<br>Time stamping<br>Event logs<br>Data logs<br>Min/max of instantaneous values<br>Alarm logs  |
| Memory capacity             | 256 kB   |
| Connections - terminals     | Voltage circuit: screw terminal block4<br>Control circuit: screw terminal block2<br>Input/output circuit: screw terminal block6<br>Relay output: screw terminal block4<br>Ethernet network: RJ45 connector<br>Current transformer: RJ45 connector1 |
| Mounting mode               | Flush-mounted  |
| Mounting support            | Framework  |
| Standards                   | IEC 61557-12<br>IEC 62053-22<br>EN 50470-3<br>IEC 62053-24<br>UL 61010-1<br>EN 50470-1<br>IEC 60529  |
| 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         | Limits for harmonic current emissions class A conforming to IEC 61000-3-2<br>Electrostatic discharge level 4 conforming to IEC 61000-4-2<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 |
| IP degree of protection               | IP52 front: conforming to IEC 60529<br>IP30 body: conforming to IEC 60529   |
| Relative humidity                     | 5...95 % at 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 |
|--------------------|--------|

### Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| RECh Regulation            | <a href="#">REACH Declaration</a>   |
| RECh free of SVHC          | Yes   |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>  |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile        | <a href="#">End of Life Information</a>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |