



Main

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| Range | PowerLogic |
| Product name | PowerLogic PM5000 |
| Device short name | PM5310 |
| Product or component type | Power meter |

Complementary

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| Power quality analysis | Up to the 31st harmonic |
| Device application | Multi-tariff Power monitoring |
| Type of measurement | Current Voltage Frequency Power factor Energy Active and reactive power |
| Supply voltage | 90...450 V AC 45...65 Hz 100...300 V DC |
| Network frequency | 50 Hz 60 Hz |
| [In] rated current | 1 A 5 A |
| Type of network | 1P + N 3P 3P + N |
| Maximum power consumption in VA | 11 VA at 415 V |
| Ride-through time | 80 Ms 120 V AC typical 100 Ms 230 V AC typical 100 Ms 415 V AC typical 50 ms 125 V DC typical |
| Display type | Monochrome graphic LCD |
| Display resolution | 128 x 128 pixels |
| Sampling rate | 64 samples/cycle |
| Measurement current | 5...8500 mA |
| Analogue input type | Voltage (impedance 5 MOhm) Current (impedance <= 0.3 mOhm) |
| Measurement voltage | 35...760 V AC 45...65 Hz between phases 20...440 V AC 45...65 Hz between phase and neutral |
| Frequency measurement range | 45...65 Hz |
| Number of inputs | 2 digital |

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| Measurement accuracy | Active energy +/- 0.5 % Reactive energy +/- 2 % Active power +/- 0.5 % Apparent power +/- 0.5 % Frequency +/- 0.05 % Power factor +/- 0.5 Current +/- 0.5 % Voltage +/- 0.5 % Apparent energy +/- 0.5 % Reactive power +/- 2 % |
| 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 JBUS |
| Communication port support | RS485 |
| Data recording | Event logs Min/Max of instantaneous values Alarm logs Data logs Time stamping Maintenance logs |
| Memory capacity | 256 kB |
| Connections - terminals | Voltage circuit: screw terminal block4 Control circuit: screw terminal block2 Current transformer: screw terminal block6 Input/Output circuit: screw terminal block6 Relay output: screw terminal block4 Ethernet network: RJ45 connector |
| Mounting mode | Flush-mounted |
| Mounting support | Framework |
| Standards | EN 50470-3 IEC 62053-24 IEC 60529 EN 50470-1 UL 61010-1 IEC 62053-22:2020 IEC 61557-12:2015 IEC 62053-23:2020 IEC 62052-11:2020 IEC 62052-31:2015 |
| Product certifications | CE conforming to IEC 61010-1[RETURN]CULus conforming to UL 61010-1 |
| Width | 96 mm |
| Depth | 72 mm |
| Height | 96 mm |
| Net weight | 430 g |

Environment

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| Electromagnetic compatibility | <p>Conducted and radiated emissions class A conforming to EN 55011</p> <p>Limits for harmonic current emissions class A conforming to IEC 61000-3-2</p> <p>Immunity to conducted disturbances - test level: 150 kHz...80 MHz level 3 conforming to IEC 61000-4-6</p> <p>Voltage dips and interruptions immunity test level 4 conforming to IEC 61000-4-11</p> <p>Conducted RF disturbances level 3 conforming to IEC 61000-4-6</p> <p>Magnetic field at power frequency level 4 conforming to IEC 61000-4-8</p> <p>Conducted and radiated emissions class B conforming to EN 55022</p> <p>Limitation of voltage changes, voltage fluctuations and flicker in low-voltage conforming to IEC 61000-3-3</p> <p>Electrostatic discharge - test level: 8 kV level 4 conforming to IEC 61000-4-2</p> <p>Radiated radio-frequency electromagnetic field immunity test conforming to IEC 61000-4-3</p> <p>Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4</p> <p>Surge immunity test level 4 conforming to IEC 61000-4-5</p> <p>Voltage dips and interruptions immunity test conforming to IEC 61000-4-11</p> |
| IP degree of protection | <p>IP54 display: conforming to IEC 60529</p> <p>IP30 rear: conforming to IEC 60529</p> |
| Relative humidity | 5...95 % at 50 °C non-condensing |
| Pollution degree | 2 |
| Ambient air temperature for operation | <p>-25...70 °C meter</p> <p>-20...70 °C display</p> <p>-25...-20 °C (with reduced performance) display</p> |
| Ambient air temperature for storage | -40...85 °C |
| Operating altitude | <p>2000 m CAT III</p> <p>3000 m CAT II</p> |

Packing Units

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|------------------------------|----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 11.0 cm |
| Package 1 Width | 12.6 cm |
| Package 1 Length | 12.6 cm |
| Package 1 Weight | 492.0 g |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 12 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 6.4 kg |
| Unit Type of Package 3 | P12 |
| Number of Units in Package 3 | 288 |
| Package 3 Height | 105.0 cm |
| Package 3 Width | 80.0 cm |
| Package 3 Length | 120.0 cm |
| Package 3 Weight | 156.0 kg |

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant with Exemptions |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |

