



Main

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|---------------------------|-------------------|
| Range of product | PowerLogic PM1000 |
| Device short name | PM1000 |
| Product or component type | Power meter |

Complementary

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| Type of measurement | Power factor Active and reactive energy Active and reactive power Frequency Voltage Current |
| Supply voltage | 44...277 V DC 44...277 V AC (50/60 Hz) |
| Network frequency | 50/60 Hz |
| Power consumption in VA | < 3 VA at 240 V AC |
| Display type | LED, digital |
| Display resolution | 3 lines with 4 digits |
| Sampling rate | 20 samples/cycle |
| Measurement current | 50 mA...6 A |
| Input type | Current 0...1 A (impedance <= 0.1 Ohm) Current 0...5 A (impedance <= 0.1 Ohm) |
| Measurement voltage | 0 V...999 kV AC 50/60 Hz with external VT 80...480 V AC 50/60 Hz phase to phase |
| Measurement accuracy | 1 % apparent power 1 % power factor 0.1 % frequency 1 % energy 1 % voltage 1 % current 1 % power |
| Accuracy class | Class 1 (active energy according to IEC 62053-21) Class 2 (reactive energy according to IEC 62053-23) |
| Transmission rate | 19.2 kbauds |

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Environment

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| Electromagnetic compatibility | Immunity to microbreaks and voltage drops, conforming to IEC 61000-4-11 Conducted and radiated emissions class A, conforming to CISPR 11 1.2/50 μ s shock waves immunity test, conforming to IEC 61000-4-5 Conducted RF disturbances, conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test, conforming to IEC 61000-4-4 Susceptibility to electromagnetic fields, conforming to IEC 61000-4-3 Electrostatic discharge immunity test, conforming to IEC 61000-4-2 Immunity to impulse waves, conforming to IEC 61000-4-12 |
| Mounting mode | Flush-mounted |
| Type of installation | Indoor installation |
| Overvoltage category | III |
| IP degree of protection | IP40 (back) conforming to IEC 60529 IP51 (front face) conforming to IEC 60529 |
| Relative humidity | 5...95 % |
| Ambient air temperature for operation | -10...60 °C |
| Ambient air temperature for storage | -25...70 °C |
| Operating altitude | 0...2000 m |
| Standards | IEC 62053-21 IEC 62052-11 |
| Width | 96 mm |
| Depth | 80 mm (embedded) |
| Height | 96 mm |
| Product weight | 0.4 kg |