



Main

Range	PowerLogic
Product name	PowerLogic PM3000
Device short name	PM3250
Product or component type	Power meter

Complementary

Power quality analysis	up to the 15th harmonic
Device application	Multi-tariff Power monitoring Sub billing
Type of measurement	Active and reactive power Apparent power Current Voltage Energy Power factor Frequency Total current harmonic distortion THD (I) Total voltage harmonic distortion THD (U)
Supply voltage	100...277 V AC 45...65 Hz 173...480 V AC 45...65 Hz 100...300 V DC
Network frequency	60 Hz 50 Hz
[In] rated current	5 A 1 A
Type of network	1P + N 3P 3P + N
Power consumption in VA	5 VA
Display type	Backlit LCD
Display resolution	128 x 96 pixels
Sampling rate	32 samples/cycle
Measurement current	0.02...1.2 A 0.05...6 A
Analogue input type	Current 0...5 A Current 0...1 A

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Measurement voltage	50...330 V AC 45...65 Hz direct 50...330 V AC 45...65 Hz phase to neutral 80...570 V AC 45...65 Hz direct 80...570 V AC 45...65 Hz phase to phase 570...999000 V AC 45...65 Hz with external VT
Frequency measurement range	45...65 Hz
Number of inputs	0
Measurement accuracy	Current 0.3 % 0.5...6 A Current 0.5 % 0.1...1.2 A Voltage 0.3 % 50...330 V Voltage 0.3 % 80...570 V
Accuracy class	Class 0.5S active energy conforming to IEC 62053-22 Class 1 active energy conforming to IEC 62053-21 Class 2 reactive energy conforming to IEC 62053-23 Class C active energy conforming to EN 50470-3
Number of outputs	0
Information displayed	Tariff (4)
Communication port protocol	Modbus at 9.6...38.4 kbauds
Communication port support	RS485
Data recording	Time stamping Min/max of instantaneous values 5 alarms
Mounting mode	Clip-on
Mounting support	DIN rail
Standards	IEC 61557-12 EN 50470-3 EN 61010-1 EN 50470-1 EN 61557-12 UL 61010-1 IEC 62052-11
Product certifications	CE conforming to EN 61010-1 CULus conforming to UL 61010-1 UL
Width	90 mm
Depth	70 mm
Height	95 mm
Net weight	0.26 kg

Environment

Electromagnetic compatibility	Electrostatic discharge level 4 conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields level 3 conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 1.2/50 μ s shock waves immunity test level 4 conforming to IEC 61000-4-5 Conducted RF disturbances level 3 conforming to IEC 61000-4-6 Magnetic field at power frequency - test level: 0.5 mT conforming to IEC 61000-4-8 Conducted and radiated emissions class B conforming to EN 55022
Overvoltage category	III
IP degree of protection	IP40 front panel: conforming to IEC 60529 IP20 body: conforming to IEC 60529
Relative humidity	5...95 % at 50 °C
Pollution degree	2
Ambient air temperature for operation	-25...55 °C
Ambient air temperature for storage	-40...85 °C
Operating altitude	0...3000 m

Contractual warranty

Warranty	18 months
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