

VOLTECH

PM1000

The Voltech PM1000 is a single-phase precision power analyzer designed for accurate measurements of power, harmonics, and efficiency. Featuring a basic accuracy of 0.05% and a wide measurement bandwidth from DC and 0.1 Hz to 1 MHz, it is ideal for testing complex, distorted waveforms such as those found in electronic ballasts, power supplies, and motor drives. With standard RS-232 and GPIB interfaces, as well as comprehensive harmonic analysis up to the 99th order, the PM1000 delivers professional-grade analysis in both laboratory and production environments.

SPECIFICATIONS

Input Specifications

Number of Phases	1 (Single Phase)
Frequency Bandwidth	DC, 0.1 Hz to 250 kHz
Crest Factor Support	Up to 20

Measurement Accuracy & Range

Basic Accuracy	0.1%
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Measurement Parameters & Functions

Active Power (W) Measurement	Yes
Voltage (V) Measurement	Yes
Current (A) Measurement	Yes
Apparent Power (VA) Measurement	Yes
Reactive Power (VAR) Measurement	Yes
Power Factor (PF) Measurement	Yes
Displacement Power Factor (Cos)	Yes
Peak Voltage (Vpk) Measurement	Yes
Peak Current (Apk) Measurement	Yes
Crest Factor Measurement	Yes
Frequency Measurement	Yes
Inrush Current Measurement	Yes
Harmonic Measurement Range	Up to the 50th harmonic
Total Harmonic Distortion (THD) Capability	Yes

Compliance, Safety & Standards

Optional Accessories Support	Current clamps, current transformers, PS1000 switch (for inrush), ballast CT
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Electrical Inputs

Maximum Continuous Voltage	600 Vrms
Maximum Continuous Current	20 Arms

TECHNOLOGY

Precision Power Measurement

APPLICATIONS

Power consumption analysis, harmonic testing, inrush current measurement, and efficiency testing

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