

PA4000 Multi-Phase Power Analyzer

Where Accuracy Meets Versatility.



Features	Benefits
Uncompromised Measurement Accuracy	Have confidence in your measurements, even if your power is far from sinusoidal.
Dual Spiral Shunt Current Shunts	Maximize stability over the entire current, frequency, and temperature range. Every input channel include both a 1 A and a 30A shunt for measuring from μ W to kW with one instrument.
High Crest Factor Tolerance	Measure accurately with current crest factors up to 10.
Fast Autoranging for Voltage and Current Inputs	Responds quickly to changes in input levels, ensuring that you get good data even under variable conditions.
Application-specific Test Modes	Built-in PWM motor mode, lighting ballast mode, standby current mode, and integrator mode, let you quickly configure for specific applications.
Standard Communication Ports Include USB, LAN and RS-232	Multiple ports are standard (GPIB is available as an option) so you can support a wider range of data-transfer methods.

Basic Accuracy of 0.04% and plenty of standard features.



Built-in PWM motor drive mode . speed/torque input s ,and wide input ranges make the PA4000 perfect for testing motor systems..

Featuring

- 1 to 4 input modules
- 0.04% basic voltage and current accuracy
- Dual internal current shunts for optimal resolution
- Unique Spiral Shunt™ design maintains stability
- Proprietary frequency detection algorithms ensure tracking on noisy waveforms
- Application-specific test modes simplify setup
- Easy data export to USB flash drive or PC software
- Harmonic analysis and communications ports are included as standard features

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Key Specifications and Ordering Information

Models	Input Channels	Basic V & I Accuracy	Measurement Bandwidth	Voltage Range	Current Range (internal shunts)
PA4000 4CH	4	0.04%	DC, 0.1 Hz - 1 MHz	2 V _{peak} to 2000 V _{peak}	0.025 A _{rms} to 30 A _{rms}
PA4000 3CH	3	0.04%	DC, 0.1 Hz - 1 MHz	2 V _{peak} to 2000 V _{peak}	0.025 A _{rms} to 30 A _{rms}
PA4000 2CH	2	0.04%	DC, 0.1 Hz - 1 MHz	2 V _{peak} to 2000 V _{peak}	0.025 A _{rms} to 30 A _{rms}
PA4000 1CH	1	0.04%	DC, 0.1 Hz - 1 MHz	2 V _{peak} to 2000 V _{peak}	0.025 A _{rms} to 30 A _{rms}



Recommended Hardware Options	
Opt GPIB	GPIB Interface
Opt 15V	Power output for current transducers
Recommended Leads and Current Transducers	
Test Leads	
PA-LEADSET	Replacement Lead Set
Current Transducers	
CT-60-S	Fixed-Core Current Transducer, High Accuracy, 60A
CT-200-S	Fixed-Core Current Transducer, High Accuracy, 200A
CT-400-S	Fixed-Core Current Transducer, High Accuracy, 400A
CT-1000-S	Fixed-Core Current Transducer, High Accuracy, 1000A
CT-100-M	Fixed-Core Current Transducer, Hall Effect, 100A
CT-200-M	Fixed-Core Current Transducer, Hall Effect, 200A
CT-500-M	Fixed-Core Current Transducer, Hall Effect, 500A
CT-1000-M	Fixed-Core Current Transducer, Hall Effect, 1000A
CL200	Current Clamp, 1A - 100A
CL1200	Current Clamp, 0.1A - 1200A

Service Options	Description
C3	Calibration service 3 years
C5	Calibration service 5 years
D1	Calibration Data Report
D3	Calibration Data Report (3 years)
D5	Calibration Data Report (5 years)
R5	Standard warranty extended to 5 years
R5DW	Repair service coverage 5 years
G3	Three-year Gold Care plan
G5	Five-year Gold Care plan

Key Applications	Benefits
Characterizing power convertor performance	Broad input ranges and excellent accuracy provide the resolution you need to characterize incremental performance improvements.
Pre-compliance testing against regulatory standards	Confirm your device's ability to pass official conformance testing before it goes to the test lab.
Compliance testing for efficiency standards	Characterizing conversion efficiency is simple and accurate with multiple inputs and user-defined math functions.