

FLUKE

5000

The Fluke Norma 5000 is a modular, high-precision power analyzer designed for complex power electronics testing. It supports up to six power phases and features simultaneous parallel acquisition of all phases. With bandwidths up to 10 MHz and sample rates up to 1 MHz (configuration dependent), it delivers class-leading accuracy for any waveform, frequency, or phase shift. Built-in functions include harmonic analysis up to the 40th order, FFT, vector diagram display, and DSO mode, alongside an internal printer.

SPECIFICATIONS

General

Interfaces	RS232, IEEE488, Ethernet, USB 2.0 (by choice/option)
Display	144 mm (5.7 in) color display

Physical

Operating Temperature	+5 to +35 °C
Dimensions (W×H×D)	427 x 150 x 310 mm mm
Weight	7 kg

General Characteristics

Number of Power Phases	1 to 6 (configurable)
Measurement Bandwidth	DC to 3 MHz / 10 MHz (configuration dependent)
Sample Rate	102 kHz / 341 kHz / 1 MHz (configuration dependent)
Measurement Architecture	Simultaneous parallel acquisition on all phases; galvanically separated inputs

Power and Energy Measurement

Average Time	15 ms to 3600 s (freely selectable)
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Frequency and Harmonic Analysis

FFT Features	FFT analysis included
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Display and Data Processing

Internal Storage Capacity	4 MB RAM for sample or average data
Internal Printer	Optional
Waveform Display Capability	DSO (Scope) mode included
Vector/Phasor Display Capability	Vector diagram mode included
Recorder Function	Included

Motor and Mechanical Evaluation (Optional)

Motor and Mechanical Evaluation	Torque and speed measurement via external sensors (requires PI1 Process Interface option)
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Interfaces and Connectivity

Analog Outputs (D/A)	4 analog outputs (with PI1 Process Interface option)
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Inputs

Voltage Input Ranges	0.3 V, 1 V, 3 V, 10 V, 30 V, 100 V, 300 V, 1000 V
Current Input Ranges (10 A Module Option)	30 mA, 100 mA, 300 mA, 1 A, 3 A, 10 A
External Shunt / BNC Input Ranges	30 mV, 100 mV, 300 mV, 1 V, 3 V, 10 V

Environmental

Storage Temperature	-20 °C to +50 °C
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Compliance

Safety Rating / Measurement Category	1000 V CAT II / 600 V CAT III
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TECHNOLOGY

Precision Power Analysis

APPLICATIONS

Power Electronics, Motor Drives, Lighting, and Transformer Testing

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