

FLUKE

5520A

The Fluke 5520A Multi-Product Calibrator is a high-performance calibrator designed to address a wide-ranging workload, sourcing direct voltage and current, alternating voltage and current, resistance, capacitance, temperature, power, and phase. With available oscilloscope calibration and power quality options, it provides comprehensive calibration capability for up to 6.5-digit multimeters, power quality analyzers, process tools, and handheld instruments.

SPECIFICATIONS

General

Interfaces	GPIO (IEEE-488), RS-232
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Physical

Operating Temperature	0 °C to 50 °C °C
Dimensions (W×H×D)	432 mm × 178 mm × 473 mm mm

DC Voltage Function

DC Voltage Range Limits	0 to ±1020 V
DC Voltage Best 1-Year Uncertainty	±11 ppm of setting

DC Current Function

DC Current Range Limits	0 to ±20.5 A
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AC Voltage Function

AC Voltage Range Limits	1 mV to 1020 V
AC Voltage Frequency Range	10 Hz to 500 kHz
AC Voltage Waveforms	Sine, square, triangle, truncated sine

AC Current Function

AC Current Range Limits	29 µA to 20.5 A
AC Current Frequency Range	10 Hz to 30 kHz

Resistance Function

Resistance Range	0 to 1100 MΩ
Resistance Output Mode	Continuously variable

Capacitance Function

Capacitance Range	0.19 nF to 110 mF
Capacitance Output Mode	Continuously variable

Power and Phase Function

Phase Resolution	0.01°
Dual Output Capabilities	Two simultaneous voltage outputs or voltage and current

Frequency and Duty Cycle

Frequency Output Range	0.01 Hz to 2.0 MHz
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Oscilloscope Calibration Option

Oscilloscope Calibration Bandwidth Options	Up to 300 MHz, 600 MHz, or 1.1 GHz (by option)
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Power Quality Option

Power Quality Option Model	5520A-PQ
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Pressure and Humidity Measurement

Pressure Module Compatibility	Fluke 700 Series
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General & Environmental Specifications

Calibration Software Compatibility	MET/CAL Plus
Warm-up Time	30 minutes
Recommended Calibration Interval	1 year (12 months)
Storage Temperature Range	-20 °C to 70 °C
Operating Altitude Limit	3,050 m (10,000 ft)
Safety Compliance	Designed to comply with IEC 1010-1

Performance

Frequency Output Accuracy	± 2.5 ppm
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Power

Power Consumption	600 VA
Line Voltage Settings	100 V / 120 V / 220 V / 240 V (± 10%)
Line Frequency Range	47 Hz to 63 Hz

Temperature

Thermocouple Simulation Resolution	0.01 °C / 0.01 °F
RTD Simulation Resolution	0.01 °C / 0.01 °F

Safety & Isolation

Maximum Guard-to-Earth Voltage	20 V peak
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TECHNOLOGY

Analog/Digital Signal Generation & Synthesis

APPLICATIONS

Calibration and Metrology

