Aumictech
Test & measurement · bought, sold, repaired, calibrated

Data Sheet
August 13, 2026

FLUKE

Fluke 5522A Multi-Product Calibrator

The Fluke 5522A isahigh-performance multi-product calibrator for wide electrical calibration workloads including multimeters, clamps, thermocouple/RTD instruments, and optional oscilloscope and power-quality packages. It sources DC/AC voltage and current with multiple waveforms, resistance, capacitance, thermocouples, RTDs, and simultaneous V+I power with 0.01 degree phase control. Internal protection features support mobile and on-site use; MET/CAL Plus automation is supported via RS-232 and IEEE-488. Calibration temperature tcal: 15 to 35 degC Oscilloscope option class: levelled sine 5 mV to 5.5 Vpp; edge less than 300 ps; to 600 MHz or 1100 MHz per option Calibration documentation: 17025 accredited report included Summary ranges and selected best uncertainties from Fluke 5522A product literature and extended specifications. Confirm installed scope/PQ options and exact 1-year uncertainty rows on the unit certificate.

MODEL **Fluke 5522A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **5522A**	LISTING **https://aumictechlabs.com/products/5522a-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 5522A Multi-Product Calibrator is a precision sourcing and measurement instrument for calibrating electrical test equipment across voltage, current, resistance, capacitance, temperature, and power parameters. It delivers DC/AC voltage and current generation, temperature simulation via thermocouples and RTDs, phantom load capability to 20.9 kW, and optional oscilloscope calibration up to 1.1 GHz. The instrument supports multiple waveforms,

phase control to 0.01°, and integrates pressure measurement when paired with Fluke 700 Series modules.A dedicated power quality option calibrates IEC-compliant harmonic, flicker, and transient instrumentation. With RS-232 and IEEE-488 interfaces, external 10 MHz frequency reference capability, and internal protection against overload and reverse power conditions, the 5522A serves calibration laboratories, service centers, and field operations requiring traceable AC/DC, thermal, and high-frequency performance verification.Technical Specifications Voltage & Current Sourcing DC Voltage: 0 to ±1020 V AC Voltage: 1 mV to 1020 V; 10 Hz to 500 kHz (1000 V @ 10 kHz / 330 V @ 100 kHz) DC Current: 0 to ±20.5 A AC Current: 29 µA to 20.5 A; 10 Hz to 30 kHz or 10 Hz to 10 kHz Resistance & Capacitance Resistance: 0 MΩ to 1100 MΩ Capacitance: 220 pF to 110 mF; 0 to 40 mF Waveform & Control Waveforms: Sine, square, triangle, truncated sine Phase Control: 0.01° resolution Power Simulation: Up to 20.9 kW phantom loads Temperature Simulation Thermocouple Types: B, C, E, J, K, L, N, R, S, T, U; 10 µV/°C RTD Elements: Pt 385/3926/3916/PtNi 385/Cu 427 variants, 100 Ω to 1000 Ω Oscilloscope Calibration (Optional) Frequency Capability: Up to 600 MHz or 1.1 GHz Leveled Sine Wave: 5 mV to 5.5 Vpp; 50 kHz to 600 kHz High-Frequency Signals: 3.5 Vpp to 1100 MHz Edge Rise Times: 20 V) User-replaceable fuses for current and auxiliary functions 30-minute warm-up; Operating range 0°C to 50°C Dimensions: 17.8 cm H × 43.2 cm W × 47.3 cm L (standard rack width) Weight: 21.5 kgCompatibility & Integration RS-232, IEEE-488 (GPIB) interfaces External 10 MHz frequency reference input/output Fluke 700 Series pressure module support for pressure calibration

Features & description

From manufacturer datasheet

Features

• Broad DC/AC V, I, ohms, capacitance, TC/RTD coverage • Simultaneous voltage+current power simulation with phase control • Optional SC600 / 1.1 GHz oscilloscope calibrator packages • Optional 5520A-PQ power quality functions • Thermocouple measure and Fluke 700 Series pressure measure support • RS-232 and IEEE-488 remote interfaces

Applications

• Calibration of 5.5- and 6.5-digit DMMs and related instruments • Multi-product electrical instrument calibration • Oscilloscope calibration with 600 MHz or 1.1 GHz options • Power quality instrumentation calibration with PQ option • Automated MET/CAL procedures

5522A Characteristics / Specifications

PARAMETER	VALUE
Model	5522A
Manufacturer	Fluke Calibration
Instrument Type	Multi-Product Calibrator
Alias	5522A; Fluke 5522A
Direct voltage	0 to +/-1020 V
Direct current	0 to +/-20.5 A
Alternating voltage	1 mV to 1020 V; 10 Hz to 500 kHz
Voltxhertz	1000 V at 10 kHz; 330 V at 100 kHz
Alternating current	29 uA to 20.5 A; 10 Hz to 30 kHz
Waveforms	Sine, square, triangle, truncated sine
Resistance	0 ohm to 1100 Mohm
Capacitance	220 pF to 110 mF
Power phantom loads	20.9 kW
Phase control resolution	0.01 deg
Thermocouple source/measure	B, C, E, J, K, L, N, R, S, T, U; 10 uV/degC and 1 mV/degC linear modes
RTD source	Pt385-100; Pt3926-100; Pt3916-100; Pt385-200; Pt385-500; Pt385-1000; PtNi385-120 Ni120; Cu427-10
Interfaces	RS-232; IEEE-488
Frequency uncertainty	less than 2.5 ppm
External frequency reference	10 MHz input supported
Phase lock	yes
Operating temperature	0 to 50 degC
Calibration temperature tcal	15 to 35 degC
Oscilloscope option class	levelled sine 5 mV to 5.5 Vpp; edge less than 300 ps; to 600 MHz or 1100 MHz per option
Calibration documentation	17025 accredited report included Notes Summary ranges and selected best uncertainties from Fluke 5522A product literature and extended

PARAMETER	VALUE
	specifications. Confirm installed scope/PQ options and exact 1-year uncertainty rows on the unit certificate.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 50 degC
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Calibration temperature tcal	15 to 35 degC
Oscilloscope option class	levelled sine 5 mV to 5.5 Vpp; edge less than 300 ps; to 600 MHz or 1100 MHz per option
Calibration documentation	17025 accredited report included Notes Summary ranges and selected best uncertainties from Fluke 5522A product literature and extended specifications. Confirm installed scope/PQ options and exact 1-year uncertainty rows on the unit certificate.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

performance multi-product calibrator for wide electrical calibration workloads including multimeters, clamps, thermocouple/RTD instruments, and optional oscilloscope and power-quality packages. It sources DC/AC voltage and current with multiple waveforms, resistance, capacitance, thermocouples, RTDs, and simultaneous V+I power with 0.01 degree phase control. Internal protection features support mobile and on-site use; MET/CAL Plus automation is supported via RS-232 and IEEE-488.

Applications
- Calibration of 5.5- and 6.5-digit DMMs and related instruments
- Multi-product electrical instrument calibration
- Oscilloscope calibration with 600 MHz or 1.1 GHz options
- Power quality instrumentation calibration with PQ option
- Automated MET/CAL procedures

Key Features
- Broad DC/AC V, I, ohms, capacitance, TC/RTD coverage
- Simultaneous voltage+current power simulation with phase control
- Optional SC600 / 1.1 GHz oscilloscope calibrator packages
- Optional 5520A-PQ power quality functions
- Thermocouple measure and Fluke 700 Series pressure measure support
- RS-232 and IEEE-488 remote interfaces

Technical Specifications

Technical Specifications

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Model	5522A
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Instrument Type	Multi-Product Calibrator
Alias	5522A; Fluke 5522A
Direct voltage	0 to +/-1020 V
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Alternating voltage	1 mV to 1020 V; 10 Hz to 500 kHz
Voltxhertz	1000 V at 10 kHz; 330 V at 100 kHz
Alternating current	29 uA to 20.5 A; 10 Hz to 30 kHz
Waveforms	Sine, square, triangle, truncated sine
Resistance	0 ohm to 1100 Mohm
Capacitance	220 pF to 110 mF
Power phantom loads	20.9 kW
Phase control resolution	0.01 deg
Thermocouple source/measure	B, C, E, J, K, L, N, R, S, T, U; 10 uV/degC and 1 mV/degC linear modes

PARAMETER	VALUE
RTD source	Pt385-100; Pt3926-100; Pt3916-100; Pt385-200; Pt385-500; Pt385-1000; PtNi385-120 Ni120; Cu427-10
Interfaces	RS-232; IEEE-488
Frequency uncertainty	less than 2.5 ppm
External frequency reference	10 MHz input supported
Phase lock	yes

DC V 90-day best class 0 to 3.299999 V: +/-(9 ppm of output + 2 uV)
DC V 1-year best class 0 to 3.299999 V: +/-(11 ppm of output + 2 uV)
DC I 90-day best class 0 to 3.29999 mA: +/-(80 ppm of output + 0.05 uA)

Specifications

PARAMETER	VALUE
Operating temperature	0 to 50 degC
Calibration temperature tcal	15 to 35 degC
Oscilloscope option class	levelled sine 5 mV to 5.5 Vpp; edge less than 300 ps; to 600 MHz or 1100 MHz per option
Calibration documentation	17025 accredited report included

Notes
Summary ranges and selected best uncertainties from Fluke 5522A product literature and extended specifications. Confirm installed scope/PQ options and exact 1-year uncertainty rows on the unit certificate.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

Aumictech
788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
https://aumictechlabs.com

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