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Data Sheet

August 13, 2026

FLUKE

Fluke 5540A Multi-Product Calibrator

The Fluke 5540A is the standard multi-product calibrator in the 5560A/5550A/5540A family, optimized for common handheld DMMs and scopes with lower cost of ownership. It provides continuous 30 A current, oscilloscope options to 600 MHz, and mobile-friendly packaging options. AC current: 10 μ A to 30.2 A continuous; 3 Hz to 30 kHz Oscilloscope bandwidth options class: 600 MHz Frequency uncertainty class: less than 2.5 ppm Power dual-output: not available on 5540A



MODEL

Fluke 5540A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

5540A

LISTING

<https://aumictechlabs.com/products/5540a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 5540A Multi-Product Calibrator delivers comprehensive calibration across digital multimeters, oscilloscopes, clamp meters, and general electrical parameters. Built to enhance calibration throughput and reduce cost of ownership, this instrument features 30 A continuous current output - eliminating duty-cycle delays - with expandable capabilities to 360 A direct or 6000 A via external amplification. It supports 4.5-digit DMM calibration at 4:1 TUR and oscilloscope bandwidth to 600 MHz, making it ideal for on-site and mobile calibration environments. Technical Specifications Voltage & Current Output DC voltage: 0 V to ± 1020 V DC current: 0 to ± 30.2 A continuous AC voltage: 1 mV to 1020 V, 3 Hz to 500 kHz AC current: 10 μ A to 30.2 A, 3 Hz to 30 kHz Volt/Hertz: 1000 V at 10 kHz / 330 V at 100 kHz Resistance, Capacitance & Inductance Resistance: 0 Ω to 1200 M Ω Capacitance: 200 pF to 120 mF Inductance: 12 μ H to 12 H

Waveforms & Temperature Output waveforms: Sine, triangle, truncated sine Dual output phantom load power: 30.9 kW Thermocouple types: B, C, E, J, K, L, N, R, S, U, BP, XK ($10\ \mu\text{V}/^\circ\text{C}$) RTD support: Pt100 (385, 395, 3916), Pt200 (385), Pt500 (385) Key Features 30 A continuous current eliminates wait times during high-demand calibration cycles Current expansion to 360 A direct output; 6000 A with Fluke 52120A amplifier and current coils for Rogowski coil calibration Oscilloscope calibration to 600 MHz bandwidth covering amplitude, edges, time markers, impedance, and overload parameters Enhanced range design for 4.5-digit handheld DMM calibration confidence Expanded thermocouple and RTD coverage with improved connector interface Typical Applications Handheld digital multimeter calibration Oscilloscope verification and adjustment Clamp meter and ammeter calibration up to 1500 A Temperature sensor (thermocouple and RTD) calibration AC/DC voltage, current, and impedance measurements Compatibility & Integration The 5540A scales with the Fluke 52120A amplifier for extended current applications and supports standard thermocouple and RTD connectors for field deployment.

Features & description

From manufacturer datasheet

Features

- Continuous 30 A current output • Tailored accuracy for handheld DMM workload • Optional portability kit • MET/CAL automation • No inductance function (unlike 5560A/5550A)
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Applications

- Handheld DMM calibration with appropriate TURs • Oscilloscope calibration to 600 MHz • Clamp meter calibration with continuous current • On-site / mobile multi-product calibration

5540A Characteristics / Specifications

PARAMETER	VALUE
Model	5540A
Manufacturer	Fluke
Instrument Type	Multi-Product Calibrator
Alias	5540A; Fluke 5540A
DC voltage	0 V to +/-1020 V
DC current	0 A to +/-30.2 A continuous
AC voltage	1 mV to 1020 V; 3 Hz to 500 kHz
AC current	10 uA to 30.2 A continuous; 3 Hz to 30 kHz
Resistance variable	0 ohm to 1200 Mohm
Capacitance variable	0 nF to 120 mF
Oscilloscope bandwidth options class	600 MHz
Frequency uncertainty class	less than 2.5 ppm
Inductance	not available on 5540A
Bandwidth	options class: 600 MHz

5540A Specifications

PARAMETER	VALUE
Key Features	- Continuous 30 A current output
Technical Specifications	Model: 5540A
Notes	Specs from Fluke 5560A/5550A/5540A datasheet. Confirm installed options.

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.

Specifications

Specifications

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Specifications

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Frequency uncertainty class	less than 2.5 ppm
Inductance	not available on 5540A

Power dual-output: not available on 5540A

Notes

Specs from Fluke 5560A/5550A/5540A datasheet. Confirm installed options.

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

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.