

TECHNICAL DATA

Fluke 5560A, 5550A and 5540A Multi-Product Calibrators



Key features

- Intuitive calibration experience with 17.8 centimeter color touch screen
- Better match your existing digital multimeter workload with optimized ranging
- Easily calibrate meters that measure AC/DC voltage, resistance and capacitance
- 30 A continuous current output extends AC/DC measurement ranges

Product overview: Fluke 5560A, 5550A and 5540A Multi-Product Calibrators

A new patented ultra-linear analog-to-digital design enables the 5560A, 5550A and 5540A to achieve performance specifications that were not possible in the 5522A and 5502A, allowing you to calibrate a more accurate and demanding workload. Calibrate multimeters significantly faster with improved settling time in both the 5560A, 5550A and 5540A. You'll have less wait time and more time actually performing the tests.

The 5560A, 5550A and 5540A multi-product calibrators work with MET/CAL, including hundreds of automated calibration procedures to consistently and dramatically improve throughput. MET/CAL v10.6 and later includes a Function Select Code (FSC) that enables you to add the 5560A, 5550A and 5540A seamlessly to your existing calibration operations.

5560A High-Performance Multi-Product Calibrator for comprehensive workload coverage

The 5560A calibrates the most popular benchtop 6.5-digit multimeters with better than 4:1 test uncertainty ratio (TUR), clamp meters to 1500 A, and oscilloscopes to 2 GHz.

- 30 A continuous current output with no duty cycle and synthesized inductance functionality
- Calibrate modern and full-functional benchtop multimeters and clamp meters
- A new thermocouple connector enables easier connection and broadens the temperature workload coverage
- Use with a 52120A amplifier and appropriate coil to increase the current output to 6000 A

5550A Performance Multi-Product Calibrator for your multimeter workload

The 5550A enhances the 5522A Multi-Product Calibrator with new calibration ranges optimized to better match your existing digital multimeter workload in a modern, ruggedized instrument with an intuitive graphical interface. It calibrates the most popular benchtop digital multimeters with improved test uncertainty ratios (TURs), oscilloscopes to 1 GHz, and clamp meters to 1500 A with continuous current output.

- 30 A continuous current output
- Improved test uncertainty ratios (TURs)
- Use with a 52120A amplifier to increase the current output to 6000 A for calibrating high-current components such as Rogowski coils

5540A Multi-Product Calibrator for on-site and mobile calibration

The 5540A extends the capabilities of the 5502A Multi-Product Calibrator with better performance suited for on-site or mobile calibration, covering many of the most demanding field instrumentation workloads. It calibrates the most popular handheld digital multimeters with increased test uncertainty ratios (TURs), oscilloscopes to 600 MHz, and clamp meters to 1500 A with continuous current output.

- 30 A continuous current output
- Range redesign enables you to calibrate your existing handheld digital multimeters with greater confidence
- Use with a 52120A amplifier to increase the current output to 6000 A for calibrating high-current components such as Rogowski coils

Specifications: Fluke 5560A, 5550A and 5540A Multi-Product Calibrators

Function	Range
Direct volts	0 V to ± 1020 V
Direct current	0 to ± 30.2 A
Alternating volts	1 mV to 1020 V 3 Hz to 500 kHz
Alternating 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
Waveforms	Sine wave, triangle wave and truncated sine wave
Resistance variable	0 Ω to 1200 M Ω
Capacitance variable	200 pF to 120 Mf
Inductance variable	12 μ H to 12 H
Power (dual output – phantom loads)	30.9 KW

Oscilloscope bandwidth	5560A: 2.1 GHz, 1.1 GHz, or 600 MHz 5550A: 1.1 GHz or 600 MHz 5540A: 600 MHz
Phase lock	Yes
Phase control	0.01°
Frequency uncertainty	<2.5 ppm
Temperature standard	<ITS-90, IPTS-68
Resistance temperature detectors (RTDs) output	Pt100 385, Pt100 395, Pt100 3916, Pt200 385, Pt500 385, Pt1000 385, Ni120, Cu10 Compensation: off, 2-wire, 4-wire
External frequency reference 10 MHz	Yes
Thermocouples (source and measure) External or internal CJR	B,C,E,J,K,L,N,R,S,U, BP and XK 10 µV/°C
Scope calibrator	SC600 – with levelled sine up to 600 MHz SC1100 – with levelled sine up to 1100 MHz SC2100 – with levelled sine up to 2100 MHz
Interfaces / Remote commands	USB 2.0, Ethernet, Telnet, RS-232 and GPIB
52120A Amplifier current capability	Current capability up to 120 A Current capability up to 360 A with three 52120As (parallel)

Ordering information



5560A

High-Performance Multi-Product Calibrator

Includes:

- Accredited 17025 Calibration Certificate Traceable to International Standards with Data
- Basic test leads and adapters
- Ruggedized shipping case

5560A/2G

High-Performance Multi-Product Calibrator + 2.1 GHz Oscilloscope Calibration Option

Includes:

- Accredited 17025 Calibration Certificate Traceable to International Standards with Data
- Basic test leads and adapters
- Ruggedized shipping case

5560A/1G

High-Performance Multi-Product Calibrator + 1.1 GHz Oscilloscope Calibration Option

Includes:

- Accredited 17025 Calibration Certificate Traceable to International Standards with Data

- Basic test leads and adapters
 - Ruggedized shipping case
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5560A/600M

High-Performance Multi-Product Calibrator + 600 MHz Oscilloscope Calibration Option

Includes:

- Accredited 17025 Calibration Certificate Traceable to International Standards with Data
 - Basic test leads and adapters
 - Ruggedized shipping case
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5550A

Performance Multi-Product Calibrator

Includes:

- Accredited 17025 Calibration Certificate Traceable to International Standards with Data
 - Basic test leads and adapters
 - Ruggedized shipping case
-

5550A/1G

Performance Multi-Product Calibrator + 1.1 GHz Oscilloscope Calibration Option

Includes:

- Accredited 17025 Calibration Certificate Traceable to International Standards with Data
 - Basic test leads and adapters
 - Ruggedized shipping case
-

5550A/600M

Performance Multi-Product Calibrator + 600 MHz Oscilloscope Calibration Option

Includes:

- Accredited 17025 Calibration Certificate Traceable to International Standards with Data
 - Basic test leads and adapters
 - Ruggedized shipping case
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5540A

Multi-Product Calibrator

Includes:

- Accredited 17025 Calibration Certificate Traceable to International Standards with Data
 - Basic test leads and adapters
 - Ruggedized shipping case
-

5540A/600M

Multi-Product Calibrator + 600 MHz Oscilloscope Calibration Option

Includes:

- Accredited 17025 Calibration Certificate Traceable to International Standards with Data
 - Basic test leads and adapters
 - Ruggedized shipping case
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Fluke. *Keeping your world up and running.®*

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