

## 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), and clamp meters to 1500 A.

- 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.

- 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) 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 $\pm 1020$ V                              |
| Direct current                      | 0 to $\pm 30.2$ A                                |
| Alternating volts                   | 1 mV to 1020 V<br>3 Hz to 500 kHz                |
| Alternating current                 | 10 $\mu$ A to 30.2 A<br>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 $\Omega$ to 1200 M $\Omega$                    |
| Capacitance variable                | 200 pF to 120 Mf                                 |
| Inductance variable                 | 12 $\mu$ H to 12 H                               |
| Power (dual output – phantom loads) | 30.9 KW  |
| 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<br>Compensation: off, 2-wire, 4-wire                 |
| External frequency reference 10 MHz                            | Yes  |
| Thermocouples (source and measure)<br>External or internal CJR | B,C,E,J,K,L,N,R,S,U, BP and XK<br>10 $\mu$ V/ $^{\circ}$ C   |
| Scope calibrator   | SC600 – with levelled sine up to 600 MHz<br>SC1100 – with levelled sine up to 1100 MHz<br>SC2100 – with levelled sine up to 2100 MHz |
| Interfaces / Remote commands                                   | USB 2.0, Etherne Telnet, RS-232 and GPIB   |
| 52120A Amplifier current capability                            | Current capability up to 120 A<br>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

### 5550A

Performance Multi-Product Calibrator

Includes:

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

### 5540A

Multi-Product Calibrator

Includes:

- Accredited 17025 Calibration Certificate Traceable to International Standards with Data

- Basic test leads and adapters
  - Ruggedized shipping case
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