

5500E Multi-Product Calibrator

The economical way to calibrate meters, clamps, and more

Technical Data

A complete solution with a high return on your investment

To compete in today's world market, you need to be able to accurately and cost effectively measure up to world standards. International quality standards such as ISO 9000, as well as safety, nuclear, environmental, and other regulations require a wide variety of electronic test tools to be calibrated traceable to nationally recognized standards.

If you need to calibrate digital multimeters and clamp meters to comply with ISO 9000 or other quality standards, the Fluke 5500E offers an accurate and economical solution. It calibrates a wide variety of digital multimeters, clamp meters, and more with a single, easy-to-use instrument.

All the functions you need

The 5500E has a wide range of outputs available from a single calibration source. These include dc and ac voltages up to 1020 V, dc and ac currents up to 550 A (using the 5500A/COIL, 50 turn current coil accessory) and variable resistances up to 330 M Ω . The 5500E also provides continuously variable capacitance values up to 1.1 mF. For temperature calibration applications, thermocouples and RTDs are simulated and thermocouple signals can be measured. It also generates digitally synthesized extended bandwidth sine, truncated sine, triangle and square waveforms. The 5500E gives you broad workload coverage in one economically priced package.



Easy-to-use operation

While the Fluke 5500E calibrator helps you do more work, it also makes it easier to get work done. Its intuitive design makes operating it as natural as turning on a light switch, reducing references to the manual. For most tasks, your hand moves from the left to right, keeping you from having to make long, illogical or uncomfortable movements. Most functions require minimal keystrokes.

The 5500E is also easy on your budget because no additional fixtures are needed and you can use it with conventional test leads.

Choose the Fluke 5500E for easy, economical calibration of:

- Handheld digital multimeters
- Bench multimeters (up to 4½ digits)
- Clamp meters
- Panel meters
- Electronic thermometers
- Chart recorders
- Oscilloscope recorders
- XY recorders
- Data loggers



Automate calibration for documented, consistent efficiency

With quality management standards like ISO 9000, there is a lot more to calibration than just making measurements. You also have documentation, control and reporting requirements to meet.

Optional Microsoft Windows®-based Fluke metrology software simplifies the documentation of your procedures, adequacy and traceability. It also collects and reports calibration results information and helps you to consistently, quickly and efficiently calibrate a wide variety of instruments. With it your entire calibration process—from creating and executing procedures through results data collection and reporting—can be automated.

Automated metrology is done by using a suite of applications called MET/CAL® Plus Calibration Management Software. Used with the MET/BASE-7 metrology database, the 5500/CAL-L license provides RS-232 instrument control and operates with the Fluke 5500A, 5520A, and 5800A calibrators in addition to the 5500E. If you need IEEE instrument control or want to automate the calibration of additional instruments, you can step up to GIPB based instrument control with the MET/CAL-L license.

Metrology software training

New Fluke calibration software users can get up to speed quickly by attending training. Classroom, online, and CD-ROM based training is available to meet a wide variety of learning preferences and budgets. Visit the training center at www.fluke.com/caltraining for a current list of classes and schedules.

5500E performance at a glance

Function	Range
DC voltage	± 1020 V
AC voltage	1 mV to 1020 V, 10 Hz to 500 kHz
Volt×Hertz	1000 V @ 10 kHz/33 V@100 kHz
DC current	0 A to ± 11 A
AC current	33 µA to 11 A, 10 Hz to 10 kHz
Waveforms	Sine, square, triangle, truncated sine
Resistance	0 Ω to 330 MΩ
Capacitance	330 pf to 1.1 mF
Thermocouple (source and measure temperature)	B, C, E, J, K, L, N, R, S, T, U, 10 µV/°C
RTD	Pt 385-100 Ω, Pt 3926-100 Ω Pt 3916-100 Ω, Pt 385-200 Ω, Pt 385-500 Ω, Pt 385 1000 Ω, PtNi 385-120 Ω, (Ni120), Cu 427 10 Ω
Frequency	.01 Hz to 2 MHz
Interfaces	RS-232, IEEE-488, 5725A



The Fluke 5500E Multi-Product Calibrator and the optional 5500A/COIL 50 turn current coil.

Ordering information

Model

- 5500E Multi-Product Calibrator
- 5500E/COIL-KIT Multi-Product Calibrator with Current Coil

Accessories

- 5500A/LEADS Comprehensive Test Lead Kit
- 5500A/COIL 50-Turn Coil
- 55XX/CASE Transit Case with Wheels
- 5500A/HNDL Side Handle
- Y5537 Rack Mount Kit
- 5725A Amplifier

Software

- MET/BASE-7 Calibration Management Software
- 5500/CAL-L License for 5500/CAL
- MET/CAL-L License for MET/CAL

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Fluke Corporation
PO Box 9090, Everett, WA 98206 U.S.A.

Fluke Europe B.V.
PO Box 1186, 5602 BD Eindhoven, The Netherlands

For more information call:
In the U.S.A. (800) 443-5853 or Fax (425) 446-5116
In Europe/M-East/Africa +31 (0) 40 2675 200 or Fax +31 (0) 40 2675 222
In Canada (800)-36-FLUKE or Fax (905) 890-6866
From other countries +1 (425) 446-5500 or Fax +1 (425) 446-5116
Web access: <http://www.fluke.com>

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