

5502E Multi-Product Calibrator

The economical way to calibrate meters, clamps, thermometers 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 standards such as ISO 17025 and 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, clamps, thermometers and other electronic test instruments to comply with quality standards, the Fluke Calibration 5502E offers an accurate and economical solution. It calibrates a wide variety of electronic test tools with a single, easy-to-use instrument.

The functions you need for wide workload coverage

The 5502E 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 current up to 20.5 A directly or 1025 A (using the 5500A/COIL 50-turn current coil accessory) and variable resistances up to 1100 MΩ.



Using the 52120A Transconductance amplifier, the 5502E's output current is extended from 20.5 to 120 A; and with the use of 25 and 50 turn coils, it can calibrate instruments requiring currents up to 6000 A.

The 5502E also provides continuously variable capacitance values up to 110 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 5502E gives you broad workload coverage in one economically-priced package.



Choose the Fluke Calibration 5502E for easy, economical calibration of:

- Handheld digital multimeters (analog and digital) to 4.5 digits
- Bench multimeters (to 4.5 digits)
- Clamp meters
- Panel meters
- Electronic thermometers
- Chart recorders
- XY recorders
- Data loggers



Easy-to-use operation

While the Fluke Calibration 5502E 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 5502E is also easy on your budget because no additional fixtures are required and you can use it with conventional test leads.

Automate calibration for documented, consistency efficiency

With standards like ISO 17025 and 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 Calibration 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.

Metrology software training

New Fluke Calibration customers 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.flukecal.com/training for a current list of classes and schedules.

5502E performance at a glance

Function	Range
DC voltage	0 to ± 1020 V
AC voltage	1 mV to 1020 V, 10 Hz to 500 kHz
VoltxHertz	1000 V @ 10 kHz/33 V@100 kHz
DC current	0 A to ± 20.5 A
AC current	29 µA to 20.5 A, 10 Hz to 30 kHz
Waveforms	Sine, square, triangle, truncated sine
Resistance	0 Ω to 1100 MΩ
Capacitance	220 pF to 110 mF
Thermocouple (source and measure temperatures)	B, C, E, J, K, L, N, R, S, T, U, 10 µV/°C, 10 µV/Deg C and 1 mV/°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

Ordering information

Model

5502E	Multi-Product Calibrator
5502E/COIL-KIT	Multi-Product Calibrator with Current Coil

Accessories

52120A	Transconductance Amplifier
5500A/LEADS	Comprehensive Test Lead Kit
5500A/COIL	50-Turn Coil
5522A/CARRYCASE	Rugged Carrying Case with removable front/back panels
55XX/CASE	Transit Case with Wheels
5500A/HNDL	Side Handle
Y5537	Rack Mount Kit

Software

MET/CAL Plus	Calibration Management Software
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Fluke Calibration. Precision, performance, confidence.™

Electrical	RF	Temperature	Pressure	Flow	Software
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