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5522A Multi-Product Calibrator

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Robust, transportable wide workload coverage

Wide workload coverage in the lab or in the field







Multiple calibrators in one

The 5522A Multi-Product Calibrator addresses a wide calibration workload and comes with internal and external protection features that protect it against damage and make it easier to transport for on-site or mobile calibration. The 5522A can also be fully automated with MET/CAL[®] *Plus* Calibration Management Software. It is the ideal calibrator for metrology professionals who need to calibrate many different types of electronic equipment and want a transportable instrument that offers them a high return on investment.

The 5522A sources direct voltage and current, alternating voltage and current with multiple waveforms and harmonics, two simultaneous voltage outputs or voltage and current to simulate dc and ac power with phase control, resistance, capacitance, thermocouples and RTDs. The 5522A can also measure thermocouple temperature and pressure using one of 29 Fluke 700 Series pressure modules. Two options add the capability to calibrate oscilloscopes up to either 600 MHz or 1.1 GHz. And the 5520A-PQ Power Quality Option enables the 5522A to calibrate power quality instrumentation to the standards of the IEC and other regulatory agencies. The 5522A calibrator covers many of the electronic test tools you use to keep your company up and running, including:

- Handheld and bench meters (analog and digital) up to $6 \ensuremath{^{1\!/_2}}$ digits
- Current clamps and clamp meters
- Thermocouple and RTD thermometers
- Process calibrators
- Data loggers
- Strip and chart recorders
- Watt meters
- Power harmonics analyzers
- Panel meters
- Graphical multimeters
- Power quality analyzers (with option)
- Analog or digital handheld and bench oscilloscopes to 600 MHz or 1.1 GHz (with options)
- ...and more, including pressure gauges and transducers and three-phase power meters

Calibrate almost anywhere, easily and dependably

Internal circuitry offers "mistake proof" protection

The 5522A provides reverse power protection, immediate output disconnection, and/or fuse protection on the output terminals for all functions. This protection is for applied external voltages up to ± 300 V peak.

Rugged carrying case enables safe transport and efficient onsite calibration

An innovative carrying case accessory makes it easier than ever to calibrate outside of the calibration laboratory, as well as inside. The shock-mounted case features built-in handles and wheels, enabling you to move the calibrator from place to place easily and safely.

The front and rear access doors are removable, so you can calibrate with the 5522A while its top, bottom and side panels remain protected—and avoid having to completely unpack and then re-pack the calibrator.

A redesigned front panel and ergonomic carrying handles make it easy to transport the calibrator short distances within the cal lab.







Powerful calibration solutions that are easy to use

The Fluke 5522A Multi-Product Calibrator makes it easy to get more work done.

It's intuitive design makes learning to operate it easy even for less experienced technicians, reducing references to the manual. For most tasks, your hand moves from left to right, keeping you from having to make long, illogical or uncomfortable movements. Most functions require minimal keystrokes.



The bright, backlit LCD display is easy to read from all angles and under a variety of light conditions.

Ergonomically designed, rugged handles make the 5522A easy to transport.

Temperature measurement modes calibrates thermocouple simulators and can also document environmental conditions present at the time of calibration, as required by all quality standards.

Spec menu lets you view the uncertainty for the present value.

Phase lock makes it easy to simulate threephase power and enables current summing for high-current tests.

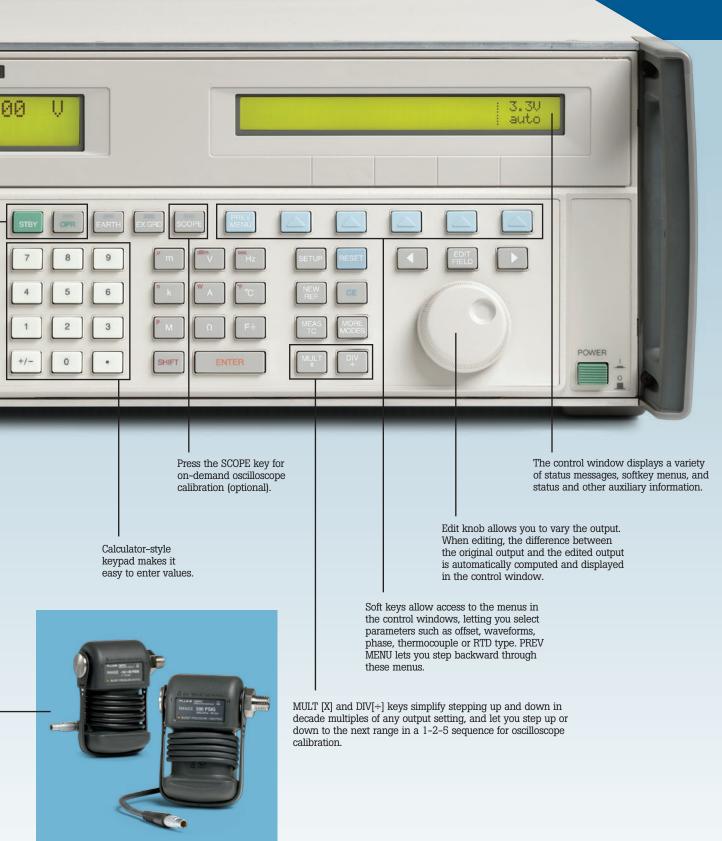
Internal circuitry plus overcurrent fuses protect against costly damage caused by electrical overloads accidently applied to the calibrator's input terminals.

A rugged carrying case makes it easy to do onsite calibration. The front and back panels remove so you can use the calibrator without unpacking it.

> An interface for Fluke 700 Series Pressure Modules, which are used to make precision _____ measurements to calibrate pressure transducers and related instrumentation. Modules span various pressure ranges, as low as 0 to 10" H₂0 (0 to 2.5 kPa), or as high as 0 to 10,000 psi (0 to 70,000 kPA).

Control output by pressing STBY and OPR keys.





Maximize your efficiency and your investment

Automate to increase throughput and efficiency

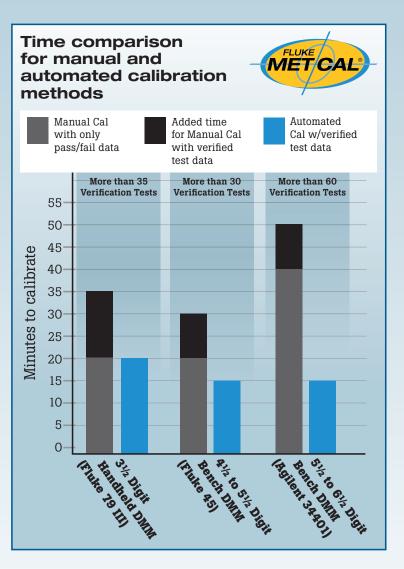
MET/CAL Plus software is a powerful application for creating, editing and testing calibration procedures and collecting and reporting results on a wide variety of instruments. It includes MET/CAL software-the industry leading software for automated calibration, and MET/TEAM[™] Express—a dedicated system to manage your test and measurement assets. Or choose MET/TEAM standard edition for fully-featured enterprise calibration asset management, with optional modules for on-site calibration, commerce management, and customer web portal. Using MET/CAL Plus Calibration Management Software can help you meet the requirements for documented processes, procedures and reports mandated by most quality standards. Automating with MET/CAL software also helps you increase throughput and streamline your calibration processes.

Priority software support helps you stay productive

MET/SUPPORT Gold is an annual membership program offering premium support and services to help you stay as productive as possible with MET/CAL *Plus* software. Services include free software updates and upgrades, free access to the Fluke MET/CAL Warranted Procedures Library, plus discounts on training and custom procedure development. Members also receive invitations to regular calibration software web seminars and user group meetings. Use only a few of the Gold services and you can easily recover more than the cost of your membership fee.

Calibration and repair service

Fluke Calibration offers extensive calibration support and service to ensure your long-term satisfaction and return on investment in calibration equipment. Our worldwide network of calibration centers offers accredited calibrations traceable to national standards. We also offer fast, quality repair and calibration services including a module exchange program and full support in setting up your lab.





Summary specifications

Function and range					
Direct volts	0 V to ± 1020 V				
Direct current	0 A to ± 20.5 A				
Alternating volts	1 mV to 1020 V 10 Hz to 500 kHz				
Volt/hertz	1000 V @10 kHz/330 V @100 kHz				
Alternating 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				
Power (phantom loads)	20.9 kW				
Phase control	0.01°				
Thermocouple (source and measure temperature)	B, C, E, J, K, L, N, R, S, T, U 10 μV/°C and 1 mV/°C				
RTD (source temperature)	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				
Interfaces	RS-232, IEEE 488				
Phase lock	Yes				
Frequency uncertainty	< 2.5 ppm				
External frequency reference (10 MHz)	Yes				
Oscilloscope calibrator (options)	Levelled sine wave from 5 mV to 5.5 Vpp max, frequencies 50 kHz to 600 kHz and 3.5 Vpp max to 1100 MHz; edge rise times of < 300ps, multiple trigger functions, lowest dc, square wave and timing uncertainty				
Power Calibrator (options)	Composite harmonic, flicker simulation, sags and swells simulation modes				

Metrology training increases skill levels

Calibration and metrology training from Fluke can help you and your staff become more knowledgeable in a wide variety of disciplines. Instructor-led classroom training is available for general topics in metrology, as well as for calibration software. On-site training can also be scheduled if you have a number of people in your organization who would benefit.

Fluke Calibration also offers other educational events such as web seminars and road shows on a wide variety of topics. The best way to stay informed about these events is to register to receive email and direct mail from Fluke Calibration. You can register online at www.flukecal.com.

Fluke Calibration multi-product calibrator family





Innovation from the leader in calibration

Fluke Calibration pioneered the multi-product calibrator concept, creating a family of instruments that allow you to calibrate the widest range of today's electronic test tools with a single instrument. These calibrators offer simple, portable, cost-effective solutions that allow you to match your calibrator to your workload and your budget.

Fluke Calibration is also recognized for its offerings in temperature, pressure, power, process, and rf calibration. Fluke Calibration provides the calibrators, standards, software, service, support and training you need for a complete solution in your cal lab.



5502A Multi-Product Calibrator

Calibration solutions that match your workload and budget

The 5502A is a versatile product that addresses a wide cross-section of your electrical calibration work load. It sources direct voltage and current, alternating voltage and current with multiple waveforms and harmonics, two simultaneous voltage outputs or voltage and current, and simulates power with phase control, resistance, capacitance, thermocouples and RTDs. The 5502A's Oscilloscope Calibration options provide level sine wave, fast edge, time mark and amplitude signals for calibration of oscilloscopes up to 600 MHz.

The 5502A was designed to cover a very wide range of medium accuracy electrical measurement devices including:

- Handheld and bench multimeters
- Oscilloscopes and ScopeMeter® Test Tools
- Wattmeters
- Analog volt/ohm/amp/watt instruments
- Electronic thermometers
- Data loggers
- Strip chart recorders
- XY Recorders
- Power harmonics analyzers
- Process calibrators
- Current clamps
- And related instruments

5080A High Compliance Multi-Product Calibrator

Calibration solutions for your analog and digital workload

The 5080A Multi-Product Calibrator calibrates your analog and digital workload accurately and economically. Its high voltage and current compliance makes analog workload calibration easy and precise. Built-in protection circuitry protects it against damaging input voltages.

This easy-to-use instrument calibrates a wide workload that includes:

- Analog meters
- Panel meters
- Digital multimeters
- Watt meters
- Clamp meters (with coil accessory)
- Megohm meters (optional)
- Oscilloscopes to 200 MHz (optional)
- ...and more

Versatile software applications enable you to record paperless results, and more.

Options and accessories expand workload coverage

Options and accessories enable you to use the 5080A to calibrate an even broader workload, including:

- Clamp meters—The 9100-200 10/50 turn coil and 5500A/COIL 50-turn current coil enables the 5080A to calibrate most popular clamp meters at currents up to 1000 A rms amps.
- Oscilloscopes–Calibrate oscilloscopes to 200 MHz quickly, easily, and cost effectively.
- Megohm meters–This option sources high ohms, high voltage resistors up to 18 GΩ. It also measures high voltage outputs.





Ordering information

Multi–Product Calibrator
Multi-Product Calibrator with 600 MHz Oscilloscope Calibration Option
Multi-Product Calibrator with 1100 MHz Oscilloscope Calibration Option
Multi-Product Calibrator with Power Quality Option
Multi-Product Calibrator with Power Quality and 600 MHz Oscilloscope Calibration Options
Multi-Product Calibrator with Power Quality and 1100 MHz Oscilloscope Calibration Options

Accessories

5522A/	Rugged Carrying Case with
CARRYCASE	removable front/back panels
55XX/CASE	Transit Case with Wheels
5520A-525A/	Thermocouple and Test
LEADS	Lead Set
5500A/COIL	50-Turn Coil
5500A/HNDL	Side Handle
Y5537	Rack Mount Kit
Fluke-700Pxx	Pressure Module Series

Software

MET/CAL	MET/CAL Plus Calibration
	Management Software
MET/TEAM	MET/TEAM Test Equipment
	Asset Management Software

Other calibration solutions

Fluke Calibration provides the broadest range of calibrators and standards, software, service, support and training in electrical, temperature, pressure, RF and flow calibration.

Visit **www.flukecal.com** for more information about Fluke Calibration products and services.

Fluke Calibration. Precision, performance, confidence."

Electrical	RF	Temperature	Pressure	Flow	Software		
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Pub-ID 11704-eng

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