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Data Sheet

August 12, 2026

FLUKE

Fluke 5080A High Compliance Multi-Product Calibrator

Fluke 5080A High Compliance Multi-Product Calibrator The Fluke 5080A is a high-compliance multi-product calibrator intended for calibrating analog and digital multimeters, clamp meters, and related instruments that need higher drive current than lighter-duty multi-product calibrators. It sources DC/AC voltage, DC/AC current, and resistance with high output compliance for demanding workloads. The Fluke 5080A is a high-compliance multi-product calibrator intended for calibrating analog and digital multimeters, clamp meters, and related instruments that need higher drive current than lighter-duty multi-product calibrators. It sources DC/AC voltage, DC/AC current, and resistance with high output compliance for demanding workloads.



MODEL

Fluke 5080A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

5080A

LISTING

<https://aumictechlabs.com/products/5080a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 5080A High Compliance Multi-Product Calibrator delivers precision calibration across voltage, current, resistance, and power measurements. This versatile instrument sources and measures DC/AC signals with high compliance output and integrated protection circuitry, protecting against damaging input levels. Its broad output range and accuracy specifications make it suitable for calibrating analog meters, digital multimeters (3.5 and 4.5 digit), panel meters,

watt meters, clamp meters, and oscilloscopes to 200 MHz. Technical Specifications DC Voltage: 0 to ± 1020 V; $\pm 0.025\%$ of setting accuracy (1 year) AC Voltage: 1 mV to 1020 V (45 Hz to 1 kHz, sine); $\pm 0.1\%$ of setting accuracy DC Current: 0 to ± 20.5 A; $\pm 0.025\%$ of setting accuracy; maximum compliance voltage to 50 V AC Current: 29 mA to 20.5 A (45 Hz to 1 kHz, sine); $\pm 0.1\%$ of setting accuracy; 44 V maximum compliance Resistance: 0 to 190 M Ω (19 values in x1 and x1.9 steps); $\pm 0.025\%$ of setting accuracy DC Power: 10.9 mW to 20.5 kW; $\pm 0.11\%$ of setting accuracy AC Power: 10.9 mW to 20.5 kW (45–65 Hz, PF=1); $\pm 0.36\%$ of setting accuracy Phase: 0 to $\pm 179.99^\circ$ (45 Hz to 1 kHz); $\pm 0.25^\circ$ of setting accuracy Frequency: 45 Hz to 1 kHz; ± 50 ppm of setting accuracy Key Features High compliance voltage design for reliable source and measure operations Selectable output burden: up to 800 mA for voltage, scaled by range Optional megohm meter calibration sources resistances to 18 G Ω Oscilloscope calibration option validates dynamic response, bandwidth, timing, and triggering to 200 MHz Clamp meter calibration via 9100-200 10/50 turn coil or 5500A/COIL 50-turn accessory Paperless results recording through versatile software applications Typical Applications Analog and digital meter calibration Multimeter verification and certification Power meter and watt meter calibration High-impedance instrument validation Field oscilloscope maintenance Compatibility & Integration Available models include the 5080A base unit, 5080A/MEG (megohm option), 5080A/SC (oscilloscope calibration), and 5080A/SC/MEG (combined options). Existing units accept upgrades to expand measurement capabilities.

Features & description

From manufacturer datasheet

Features

- High-compliance multi-product calibrator architecture
- DC/AC voltage, current, and resistance outputs
- Designed for meters that draw significant current from the calibrator
- Workload coverage for common shop calibrations

Applications

- Calibration of analog and digital multimeters
- Clamp-meter calibration requiring high compliance
- Oscilloscope calibration workflows (family literature to about 200 MHz class)
- High-burden meter calibration benches

5080A Characteristics / Specifications

PARAMETER	VALUE
Model	5080A
Manufacturer	Fluke
Instrument Type	High-compliance multi-product calibrator Notes Confirm exact range cards/options and extended-spec accuracy tables from the Fluke 5080A product specifications document shipped with the unit.
Alias	5080A; Fluke 5080A
DC/AC voltage class	to about 1020 V
DC/AC current class	to about 20.5 A
Resistance class	to about 190 Mohm
Oscilloscope cal class	to about 200 MHz (family literature)

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

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Model	5080A
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Instrument Type	Multi-Product Calibrator
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Specifications

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DC/AC voltage class	to about 1020 V
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Notes

Confirm exact range cards/options and extended-spec accuracy tables from the Fluke 5080A product specifications document shipped with the unit.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.