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Data Sheet

August 13, 2026

FLUKE

Fluke 5320A Multifunction Electrical Tester Calibrator

Fluke 5320A Multifunction Electrical Tester Calibrator The Fluke 5320A calibrates electrical installation and safety testers with insulation resistance, continuity, loop/line impedance, RCD/GFCI, earth resistance, ground bond, leakage current, hipot, PAT, and medical electrical safety workloads. It provides precision low and high resistance sources, high-current low-resistance values for loop/bond, leakage simulation, and RCD trip current/time simulation. Active VLC functions appear on 5320A/VLC configurations. The Fluke 5320A calibrates electrical installation and safety testers with insulation resistance, continuity, loop/line impedance, RCD/GFCI, earth resistance, ground bond, leakage current, hipot, PAT, and medical electrical safety workloads. It provides precision low and high resistance sources, high-current low-resistance values for loop/bond, leakage simulation, and RCD trip current/time simulation. Active VLC functions appear on 5320A/VLC configurations.



MODEL

Fluke 5320A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

5320A

LISTING

<https://aumictechlabs.com/products/5320a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 5320A Multifunction Electrical Tester Calibrator is a calibrator the demanding requirements of electrical tester calibration. It has a wide range of calibration functions, including voltage, current, resistance, capacitance, and frequency, ensuring comprehensive coverage for

various electrical testers. The 5320A features a user-friendly interface with a large, easy-to-read display and intuitive controls, simplifying the calibration process. Its solid design and high accuracy make it suitable for both laboratory and field use. The calibrator is equipped with advanced features such as automatic calibration procedures, data logging, and remote control capabilities, enhancing efficiency and productivity. The Fluke 5320A is an indispensable tool for maintaining the accuracy and reliability of electrical testing equipment, ensuring compliance with industry standards and regulations.

Features & description

From manufacturer datasheet

Features

• Continuously variable low and high resistance sources • 16 high-power resistor values for loop/bond workloads • Multi-mode leakage current source • RCD trip current and trip time simulation • Built-in AC/DC meter class measurement (to 1100 V / 30 A class) • Optional active VLC package

Applications

• Calibration of insulation and continuity testers • Loop/line impedance and ground-bond tester calibration • RCD/GFCI tester verification without tripping plant breakers • Leakage current and PAT/medical safety tester calibration

Built-in meter class: to 1100 V and 30 A

Notes Specs from Fluke 5320A product and service literature. Confirm /VLC and option cards on the faceplate.

5320A Characteristics / Specifications

PARAMETER	VALUE
Model	5320A
Manufacturer	Fluke
Instrument Type	Multifunction Electrical Tester Calibrator
Alias	5320A; Fluke 5320A; 5320A/VLC
Precision low resistance	100 mohm to 10 kohm; 3.5-digit continuously variable
Low resistance max current	5 mA to 400 mA class; 2-wire and 4-wire modes
High resistance (HV)	10 kohm to 100 Gohm; 4.5-digit to 10 Gohm continuously variable
High resistance max voltage	55 Vpk to 1575 Vpk class
Loop compensation	0 to 10 ohm (scan); 0 to 2 ohm (active; /VLC)
Loop compensation uncertainty	+/- (1% + 15 mohm)
Leakage current	0.1 mA to 30 mA; resolution 10 uA
Leakage test voltage	10 to 250 V
Leakage modes	Passive, differential, substitute; active on /VLC
RCD trip current 0.5xl and 1xl	3 to 3000 mA in 1 mA steps
RCD trip current 1.4xl and 2xl	3 to 1500 mA
RCD trip current 5xl	3 to 600 mA
RCD trip current uncertainty	1% rms (0.5x/1x); 2% (1.4x/2x); 5% (5x)
RCD trip time	10 to 5000 ms; uncertainty 0.25 ms class

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

PARAMETER	VALUE
Model	5320A
Manufacturer	Fluke
Instrument Type	Multifunction Electrical Tester Calibrator
Alias	5320A; Fluke 5320A; 5320A/VLC

Precision low resistance: 100 mohm to 10 kohm; 3.5-digit continuously variable
Low resistance max current: 5 mA to 400 mA class; 2-wire and 4-wire modes
Low resistance best 1-year: +/-0.2% of setting
High resistance (HV): 10 kohm to 100 Gohm; 4.5-digit to 10 Gohm continuously variable
High resistance max voltage: 55 Vpk to 1575 Vpk class
High resistance best 1-year: +/-0.2% of setting
High-current low resistance: 25 mohm to 1.8 kohm; 16 fixed values
High-current continuous: 0.025 A to 30 A; short-term to 40 A class

Specifications

PARAMETER	VALUE
Loop compensation	0 to 10 ohm (scan); 0 to 2 ohm (active; /VLC)
Loop compensation uncertainty	+/- (1% + 15 mohm)
Leakage current	0.1 mA to 30 mA; resolution 10 uA
Leakage test voltage	10 to 250 V
Leakage modes	Passive, differential, substitute; active on /VLC

Leakage best 1-year: +/- (0.3% + 2 uA) passive/diff/substitute; +/- (0.3% + 1 uA) active /VLC

Specifications

PARAMETER	VALUE
RCD trip current 0.5xI and 1xI	3 to 3000 mA in 1 mA steps
RCD trip current 1.4xI and 2xI	3 to 1500 mA
RCD trip current 5xI	3 to 600 mA
RCD trip current uncertainty	1% rms (0.5x/1x); 2% (1.4x/2x); 5% (5x)
RCD trip time	10 to 5000 ms; uncertainty 0.25 ms class

Built-in meter class: to 1100 V and 30 A

Notes

Specs from Fluke 5320A product and service literature. Confirm /VLC and option cards on the faceplate.

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.