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Data Sheet

August 13, 2026

FLUKE

Fluke 5322A Electrical Safety Tester Calibrator

Fluke 5322A Electrical Safety Tester Calibrator The Fluke 5322A calibrates electrical safety testers including insulation resistance, ground bond, leakage current, and related functions. It provides precision resistance sources, high-voltage resistance sources, leakage simulation, and test-voltage measurement for validating safety-tester accuracy. The Fluke 5322A calibrates electrical safety testers including insulation resistance, ground bond, leakage current, and related functions. It provides precision resistance sources, high-voltage resistance sources, leakage simulation, and test-voltage measurement for validating safety-tester accuracy.



MODEL

Fluke 5322A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

5322A

LISTING

<https://aumictechlabs.com/products/5322a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 5322A Electrical Safety Tester Calibrator is a dedicated instrument for calibrating electrical safety test equipment across multiple measurement functions. It eliminates the need for multiple products, enabling technicians to validate insulation resistance testers, ground bond testers, hipot testers, RCD/GFCI testers, multifunction installation testers, and portable appliance testers (PATs) against international standards including BS7671 17th Edition, IEC/EN, and AS/NZS 3000. Technical Specifications -# Insulation Resistance High voltage resistance outputs continuously variable up to 1.5 kV (base model) or 5 kV (5322A/5 model) Resistance ranges to 100 GΩ with 4.5-digit resolution for testers up to 5 kV External R-Multiplier extends ranges to 10 TΩ

for 10 kV insulation testers Continuously variable resistance adjustment supports calibration of analog hand-cranked testers -# Leakage Current Simulates direct/touch, differential, and substitute leakage current methods 10 μ A resolution from 0.1 mA to 30 mA 4.5-digit resolution across full 0.1 mA to 30 mA range -# Ground Bond Testing 2-wire and 4-wire measurement modes Lowest 4-wire output: 1 m Ω Resistance sourcing: 100 m Ω to 10 k Ω with 3.5-digit resolution Discrete 4-wire 10 m Ω resistor option available -# Loop/Line Impedance 16 high-power, high-current resistors for loop or line resistance sourcing Automatic scan mode determines loop resistance Active Loop Compensation (VLC option) cancels residual line impedance -# RCD/GFCI Testing Simulates RCD/GFCI trip current and trip time Trip time uncertainty: 0.25 ms (better than 4:1 TUR for most RCD testers) Trip current uncertainty: 1% (better than 4:1 TUR in most applications) PAT RCD mode for portable appliance tester calibration -# Hipot Testing Built-in meter measures voltage to 5 kV 10 kV divider accessory provides 0.5% uncertainty for testers up to 10 kV Optional 40 kV probe available

Key Features Multi-function calibration in a single instrument High-resolution measurement across all safety test functions Supports both modern digital and legacy analog testers

Typical Applications Calibration laboratory operations Field service and maintenance verification Regulatory compliance validation per international standards

Features & description

From manufacturer datasheet

Features

- Low and high resistance sources
- Ground bond and line/loop impedance sources
- Leakage current source (passive/differential/substitute; active with VLC)
- Test voltage measurement to 5500 V dc
- Optional 5.5 kV high-resistance and VLC packages

Applications

- Calibration of insulation testers
- Ground-bond / continuity tester calibration
- Leakage current tester verification
- Line/loop impedance tester calibration

5322A Characteristics / Specifications

PARAMETER	VALUE
Model	5322A
Manufacturer	Fluke
Instrument Type	Electrical Safety Tester Calibrator
Alias	5322A; Fluke 5322A
Low resistance source	100 mohm to 10 kohm + 10 mohm single value 1.5 kV high resistance: 10 kohm to 10 Gohm + 100 Gohm single value 5.5 kV high resistance (option /5): 10 kohm to 100 Gohm
Test voltage measurement	0 V dc to 5500 V dc
Ground bond resistance	1 mohm to 1700 ohm
Line/loop impedance	25 mohm to 1700 ohm
Leakage current source	0.1 to 30 mA
Leakage uncertainty passive class	+/- (0.3% setting + 2 uA)
Power line	115/230 V ac 50/60 Hz
Power consumption	1250 VA maximum
Spec confidence	99%; interval 1 year Notes Specs from Fluke 5322A product specifications. Confirm /5 and /VLC options on the unit.

5322A Specifications

PARAMETER	VALUE
Fluke 5322A Electrical Safety Tester Calibrator	Overview
Key Features	- Low and high resistance sources
Technical Specifications	Model: 5322A
Notes	Specs from Fluke 5322A product specifications. Confirm /5 and /VLC options on the unit.

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	5322A
Manufacturer	Fluke
Instrument Type	Electrical Safety Tester Calibrator
Alias	5322A; Fluke 5322A

Low resistance source: 100 mohm to 10 kohm + 10 mohm single value
1.5 kV high resistance: 10 kohm to 10 Gohm + 100 Gohm single value
5.5 kV high resistance (option /5): 10 kohm to 100 Gohm

Specifications

PARAMETER	VALUE
Test voltage measurement	0 V dc to 5500 V dc
Ground bond resistance	1 mohm to 1700 ohm
Line/loop impedance	25 mohm to 1700 ohm
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Notes

Specs from Fluke 5322A product specifications. Confirm /5 and /VLC options on 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

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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.