

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

FLUKE

Fluke 5102B Meter Calibrator

The Fluke 5102B is the portable-case member of the 5100B Series multifunction calibrators (with 5100B/5101B). It sources DC/AC voltage to 1100 V, DC/AC current to 2 A, and resistance into the megohm range, with guarded outputs. It integrates with 5205A/5220A amplifiers via Y5000 interface and supports wideband Option -03 to 10 MHz. Power: switch-selectable line voltages 100-240 V class, 50/60 Hz Form factor: Portable case with sealed covers (vs bench 5100B/5101B) NSN class literature: listed for 5100B series family Specs from Fluke 5100B Series literature referencing 5102B portable case. Confirm installed options (-03/-05/-06) on the unit.



MODEL

Fluke 5102B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

5102B

LISTING

<https://aumictechlabs.com/products/5102b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 5102B meter calibrator is a precision instrument used for verifying and calibrating the accuracy of various electrical testing and measurement devices. It is capable of generating stable and precise signals, including voltage, current, resistance, and frequency. This calibrator is essential for maintaining the performance and reliability of multimeters, clamp meters, and other electrical testers. It ensures that these instruments provide accurate readings, which is critical for safety and quality control in electrical work.

Features & description

From manufacturer datasheet

Features

- 5100B Series functions in portable sealed case
- Guarded outputs / remote sensing class
- Direct drive of 5220A and 5205A/5215A amplifiers
- Wideband AC option to 10 MHz
- MET/CAL and MECCA compatibility class

Applications

- Calibration of DMMs and related meters
- Portable multifunction V/I/ohms source
- Wideband AC voltmeter calibration with Option -03
- Current to 20 A / HV loading extension with 5220A/5205A

5102B Characteristics / Specifications

PARAMETER	VALUE
Model	5102B
Manufacturer	Fluke
Instrument Type	Meter Calibrator / Multifunction Calibrator
Alias	5102B; Fluke 5102B
Series	Fluke 5100B / 5101B / 5102B
DC/AC voltage	to 1100 V
DC/AC current	to 2 A (to 20 A with 5220A)
Resistance	ohms to 10 Mohm class
Basic DCV accuracy class	0.005% family
Wideband amplitude flatness class	+/-0.25% (30 Hz-1 MHz) class
HV loading with 5205A	to 100 mA at 1100 V DC class
Interface buffer	Y5000 required for amplifier integration
Power	switch-selectable line voltages 100-240 V class, 50/60 Hz
Form factor	Portable case with sealed covers (vs bench 5100B/5101B)
NSN class literature	listed for 5100B series family Notes Specs from Fluke 5100B Series literature referencing 5102B portable case. Confirm installed options (-03/-05/-06) on the unit.

5102B Specifications

PARAMETER	VALUE
Fluke 5102B Meter Calibrator	Overview
Key Features	- 5100B Series functions in portable sealed case
Technical Specifications	Model: 5102B
Notes	Specs from Fluke 5100B Series literature referencing 5102B portable case. Confirm installed options (-03/-05/-06) 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	5102B
Manufacturer	Fluke
Instrument Type	Meter Calibrator / Multifunction Calibrator
Alias	5102B; Fluke 5102B

Specifications

PARAMETER	VALUE
Series	Fluke 5100B / 5101B / 5102B
DC/AC voltage	to 1100 V
DC/AC current	to 2 A (to 20 A with 5220A)
Resistance	ohms to 10 Mohm class
Basic DCV accuracy class	0.005% family

Wideband option -03: 10 Hz to 10 MHz; 300 uV to higher levels at dedicated BNC
Wideband amplitude flatness class: +/-0.25% (30 Hz-1 MHz) class
HV loading with 5205A: to 100 mA at 1100 V DC class
AC V-Hz with amplifier: to 1100 V at 50 kHz class

Specifications

PARAMETER	VALUE
Interface buffer	Y5000 required for amplifier integration
Power	switch-selectable line voltages 100-240 V class, 50/60 Hz
Form factor	Portable case with sealed covers (vs bench 5100B/5101B)
NSN class literature	listed for 5100B series family

Notes
Specs from Fluke 5100B Series literature referencing 5102B portable case. Confirm installed options (-03/-05/-06) 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

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.