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Data Sheet

August 13, 2026

FLUKE

Fluke 752A " Reference Voltage Divider

The Fluke Calibration 752A is a precision DC reference voltage divider with 10:1 and 100:1 outputs and output uncertainties of 0.2 ppm and 0.5 ppm respectively after self-calibration. A built-in calibration bridge with Dynamic Resistor Matching compensates long-term drift using only a stable source and a null detector before use. System switching supports stand-alone divider mode and integrated comparison workflows with a 10 V standard and null detector. Relative humidity operating: less than or equal to 75% to 40 degC; less than or equal to 45% to 50 degC Operating altitude: less than or equal to 3050 m Safety: IEC 348; ANSI C39.5; related listings Specs from Fluke 752A product page and reference divider datasheet. Confirm null-detector capability and recent self-calibration before relying on ppm uncertainties.



MODEL

Fluke 752A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

752A

LISTING

<https://aumictechlabs.com/products/752a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 752A is a precision DC voltage divider engineered for high-accuracy calibration applications requiring ppm-level uncertainties. It delivers two fixed division ratios - 10:1 and 100:1 - with output uncertainties of ± 0.2 ppm and ± 0.5 ppm respectively. The instrument incorporates Dynamic Resistor Matching™ and an internal calibration bridge to maintain ratio stability across temperature and time. Self-calibration takes approximately five minutes using only a stable source and null detector, with no external standards required. The calibration procedure compensates for long-term resistor drift by switching divider elements through Wheatstone bridge configurations.

When paired with a 10 V reference source and null detector, the 752A functions as a 5-decade voltage calibrator, enabling direct comparison of input voltages from 0.1 V to 1000 V against a precision reference. Internal switching eliminates manual lead reconfiguration during multi-range calibration work.

Technical Specifications

Division Ratios and Accuracy

10:1 ratio: ± 0.2 ppm output uncertainty (0 V to 100 V input)

100:1 ratio: ± 0.5 ppm output uncertainty (0 V to 1000 V input)

Null accuracy: ± 0.5 μV (10:1), ± 1.0 μV (100:1)

Specifications valid for ± 1 °C thermal variation from calibration temperature (18 °C to 28 °C) for up to 8 hours post-calibration

Temperature coefficient: $< \pm 1$ ppm/°C operating range; typically 0.1 ppm/°C (15 °C to 30 °C)

Electrical Characteristics

Input resistance: $380\text{ k}\Omega \pm 1\%$ (10:1); $2\text{ M}\Omega \pm 1\%$ (100:1)

Maximum input: 200 V (10:1 ratio), 1100 V (100:1 ratio)

Power coefficient: ≤ 0.05 ppm of output at 100 V (10:1); ≤ 0.3 ppm of output at 1000 V (100:1)

Key Features

- Two fixed ratios with internal switching for instant ratio selection
- Self-calibration capability without external standards
- Dynamic Resistor Matching™ for enhanced long-term stability
- Built-in calibration bridge for independent verification
- Low null detection sensitivity: 0.5 μV and 1.0 μV resolution

Typical Applications

- High-precision DC voltage metrology and standards traceability
- Multi-range voltage calibrator systems when integrated with reference sources
- Voltage divider ratio verification and characterization
- Temperature-controlled calibration environments

Compatibility & Integration

- Works with Fluke 732B 10 V reference source for complete calibrator systems
- Operates with any stable DC source and null detection instrument

Features & description

From manufacturer datasheet

Features

- 10:1 and 100:1 divider outputs
- Output uncertainty 0.2 ppm and 0.5 ppm class after self-cal
- Built-in calibration bridge
- Dynamic Resistor Matching
- System switching for stand-alone or bridged modes
- Driven-guard 100:1 architecture

Applications

- High-accuracy DC voltage ratio transfers
- Extending 10 V standards to 100 V and 1000 V levels
- Calibrator and voltmeter linearity/ratio verification
- Standards-lab divider bridge self-calibration workflows

752A Characteristics / Specifications

PARAMETER	VALUE
The Fluke Calibration 752A is a precision DC reference voltage divider with	1 and 100:1 outputs and output uncertainties of 0.2 ppm and 0.5 ppm respectively after self-calibration. A built-in calibration bridge with Dynamic Resistor Matching compensates long-term drift using only a stable source and a null detector before use. System switching supports stand-alone divider mode and integrated comparison workflows with a 10 V standard and null detector.
Model	752A
Manufacturer	Fluke Calibration
Instrument Type	Reference Voltage Divider
Alias	752A; Fluke 752A
Ratio ranges	10:1 and 100:1 10:1 output uncertainty: 0.2 ppm for up to 8 hours after self-cal within +/-1 degC of cal temperature 100:1 output uncertainty: 0.5 ppm for up to 8 hours after self-cal within +/-1 degC of cal temperature 10:1 best-accuracy input: 0 to 100 V 100:1 best-accuracy input: 0 to 1000 V 10:1 maximum input voltage: 200 V safety maximum 100:1 maximum input voltage: 1100 V 10:1 null uncertainty requirement: +/-0.5 uV 100:1 null uncertainty requirement: +/-1.0 uV
Temperature coefficient of ratio	less than +/-1 ppm/degC; typical 0.1 ppm/degC 15 to 30 degC 10:1 input resistance: 380 kohm +/-1% 100:1 divider resistance: 4 Mohm 100:1 driven guard: 4 Mohm 100:1 total input resistance: 2 Mohm +/-1% 10:1 power coefficient: less than 0.05 ppm of output with 100 V applied 100:1 power coefficient: less than 0.3 ppm of output with 1000 V applied
Specification temperature window	18 to 28 degC lifetime ratio specs
Operating temperature	0 to 50 degC
Relative humidity operating	less than or equal to 75% to 40 degC; less than or equal to 45% to 50 degC
Operating altitude	less than or equal to 3050 m
Size	19.1 × 22.1 × 60.3 cm
Weight	8.4 kg; 18.5 lb
Safety	IEC 348; ANSI C39.5; related listings Notes Specs from Fluke 752A product page and reference divider datasheet. Confirm null-detector capability and recent self-calibration before relying on ppm uncertainties.

PARAMETER	VALUE
Driven-guard 100	1 architecture
Non-operating Temperature	40 to 75 degC
Humidity	operating: less than or equal to 75% to 40 degC; less than or equal to 45% to 50 degC

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 50 degC
Operating Temperature	0 to 50 degC
Non-operating Temperature	40 to 75 degC
Humidity	operating: less than or equal to 75% to 40 degC; less than or equal to 45% to 50 degC
Relative humidity operating	less than or equal to 75% to 40 degC; less than or equal to 45% to 50 degC
Operating altitude	less than or equal to 3050 m
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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	
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PARAMETER	VALUE
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Manufacturer	Fluke Calibration
Instrument Type	Reference Voltage Divider
Alias	752A; Fluke 752A
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Specifications	
PARAMETER	VALUE
Relative humidity operating	less than or equal to 75% to 40 degC; less than or equal to 45% to 50 degC
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Size	19.1 x 22.1 x 60.3 cm
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Notes	
Specs from Fluke 752A product page and reference divider datasheet. Confirm null-detector capability and recent self-calibration before relying on ppm uncertainties.	

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.