

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

FLUKE

Fluke 732B Direct Voltage Standard

The Fluke 732B is a transportable laboratory DC voltage standard providing separate 10 V and 1.018 V outputs. It is the building-block standard used inside the Fluke 734A four-cell reference system. An internal ovenized reference with battery backup supports portable transfer of the volt while maintaining low drift, including optional drift characterization on /C configurations. Line voltage: 100/120/220/240 V AC +/-10%; 50/60 Hz; 66 W max Non-operating temperature battery off: -51 to 71 degC class Relative humidity: less than 95% to 30 degC; less than 75% to 35 degC non-condensing External battery option: 732B-7001; similar size; about 5.45 kg



MODEL

Fluke 732B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

732B

LISTING

<https://aumictechlabs.com/products/732b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 732B Direct Voltage Standard is a portable, high-precision DC voltage reference instrument designed for calibration laboratories and metrology applications requiring stable, traceable voltage standards. It replaces saturated standard cells with solid-state technology, providing two independently selectable outputs (1.018 V DC and 10 V DC) with exceptional long-term stability and minimal drift. The 732B is engineered for transferring calibration values from national standards and advanced systems like Josephson Arrays while maintaining institutional voltage references in demanding measurement environments. Technical Specifications Voltage Outputs & Accuracy 1.018 V DC: ± 0.8 ppm (30-day), drift ~ 1 ppm/month 10 V DC: ± 0.3 ppm (30-day), ± 2.0 ppm (1-year), drift ~ 0.8 ppm/month Output current drive: 12 mA per output

noise: 130 hours Environmental & Physical Operating temperature: 15°C to 35°C Non-operating temperature: -51°C to 71°C Operating humidity: <95% RH to 30°C; <75% RH to 35°C (non-condensing) Operating altitude: <3049 m (10,000 ft) Vibration: MIL-T-28800 Type III, Class 5, Style E Dimensions: 13.4 cm H × 9.8 cm W × 40.6 cm D Weight: 5.91 kg (13 lbs)Key Features Dual voltage outputs for flexible reference configurations Compact, light design rated for portable field and laboratory deployment Trickle-charge capability maintains battery health during AC operation Sub-microvolt output noiseTypical Applications Metrology lab voltage reference standards Calibration value transfer from national laboratories Institutional standards maintenance Portable voltage calibration work

Features & description

From manufacturer datasheet

Features

- Separate 10 V and 1.018 V binding-post outputs • 10 V 1-year stability ± 2.0 ppm; 30-day ± 0.3 ppm
- Internal 12 V gelled lead-acid battery with trickle charge on AC • Short-circuit tolerant outputs • Optional external 732B-7001 battery/charger pack • Building block for Fluke 734A four-standard system

Applications

- Primary/secondary standards laboratory voltage maintenance • 10 V artifact transfer and calibrator reference support • 1.018 V saturated-cell transfer workloads • Portable battery-backed voltage standard transport

732B Characteristics / Specifications

PARAMETER	VALUE
Model	732B
Manufacturer	Fluke
Instrument Type	Direct Voltage Standard
Alias	732B; Fluke 732B
Output voltages	10.0 V and 1.018 V on separate binding-post pairs 10 V stability 30 days: +/-0.3 ppm 10 V stability 90 days: +/-0.8 ppm 10 V stability 1 year: +/-2.0 ppm 1.018 V stability 30 days: +/-0.8 ppm 10 V output current: 12 mA maximum 10 V battery-operation current limit: less than or equal to 0.1 mA for long battery life 10 V output impedance: less than or equal to 1 milliohm 1.018 V output impedance: less than or equal to 1 kohm 10 V temperature coefficient: less than or equal to 0.04 ppm/degC 15 to 3
Battery type	internal 12 V lead-acid gelled electrolyte
Battery life	about 70 to 72 hours at 23 degC fully charged with low output current
Recharge	trickle charge on AC; full recharge less than 24 hours class
External DC input	rear-panel 12 to 15 V DC accepted
Line voltage	100/120/220/240 V AC +/-10%; 50/60 Hz; 66 W max
Line frequency accepted	47 to 63 Hz
Operating temperature	15 to 35 degC
Relative humidity	less than 95% to 30 degC; less than 75% to 35 degC non-condensing
Operating altitude	less than 3049 m
Size	13.4 × 9.8 × 40.6 cm
Weight	5.91 kg; 13 lb
External battery option	732B-7001; similar size; about 5.45 kg
Variants	732B; 732B/H powered with certificate; 732B/C with drift characterization Notes Specs from Fluke 732B product page and 732B/734A literature. Confirm powered-ship status, certificate option, and current drift characterization on the unit.
Non-operating Temperature	battery off: -51 to 71 degC class

PARAMETER	VALUE
Humidity	less than 95% to 30 degC; less than 75% to 35 degC non-condensing

General Specifications & Supplementary Characteristics

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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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Notes
Specs from Fluke 732B product page and 732B/734A literature. Confirm powered-ship status, certificate option, and current drift characterization 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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<https://aumictechlabs.com>

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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.