

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

FLUKE

Fluke 721A

The Fluke 721A is a precision Kelvin-Varley style voltage divider used to accurately divide DC reference voltages for calibration of voltmeters and sources in primary and secondary standards labs. DC voltage ratio calibration, stepping down saturated standard-cell and zener references, and verifying high-accuracy DVMs. High ratio accuracy class for standards work

Instrument Type: Precision DC voltage divider Guard Class: Guarded operation practices in manual Resolution of Ratio: Decade step resolution Linearity Class: High linearity resistive divider Precision divider identity from Fluke 721A metrology literature. Authoritative ratio uncertainty and maximum voltage belong in the 721A instruction manual.



MODEL

Fluke 721A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

721A

LISTING

<https://aumictechlabs.com/products/721a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 721A Lead Compensator is a precision instrument that eliminates measurement errors in voltage-divider circuits caused by lead and contact resistance. By equalizing voltage drops across parallel resistive dividers, it delivers the accuracy demanded in high-precision metrology applications. The 721A functions as an operational accessory for high-accuracy voltage dividers including the Fluke 720A and 725A models, where even small resistance-induced errors compromise results. Technical Specifications Resistance compensation resolution: 0.1 mΩ Maximum divider resistance ratio: 4000:1 Maximum allowable lead resistance: 150 mΩ Maximum divider voltage: 1500 V DC or peak AC Fine control: 10-turn, 150 mΩ slide-wire potentiometer

Coarse control: 18-position rotary switch Binding posts: Gold-plated copper Voltage switch: Grounds input voltage terminals for thermal voltage compensation Key Features Two-stage compensation network - coarse adjustment via rotary switch for rapid zeroing, fine adjustment via precision potentiometer for exact nulling. 0.1 mΩ resolution enables compensation of minute contact and lead resistances that would otherwise degrade divider accuracy. Supports divider resistance ratios up to 4000:1, accommodating diverse measurement configurations. Gold-plated binding posts ensure low-resistance connections and long-term reliability in precision circuits. Integrated voltage switch permits compensation of thermal EMF without disconnecting the divider. Physical Specifications Height: 8.8 cm (3.5 inches) Width: 48.2 cm (19 inches) Depth: 15.2 cm (6 inches) Weight: 2.72 kg (6 lb) Typical Applications The 721A is essential in precision voltage measurement and calibration work where contact and lead resistance introduce unacceptable errors. It is particularly suited for high-accuracy metrology requiring milliohm-level compensation and measurements at elevated voltages up to 1500 V. Compatibility & Integration Designed specifically as an operational accessory for the Fluke 720A and 725A high-accuracy voltage dividers.

721A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Precision DC voltage divider
Model	721A
Quantity Divided	DC voltage
Connection Style	Kelvin/sense capable metrology practice
Form Factor	Benchtop standards instrument
Intended Use	Voltage ratio calibration
Ratio Setting	Decade switches
Accuracy Class	Standards-lab divider class
Stability Class	Low drift resistive network
Power Coefficient Class	Specified in manual
Voltage Rating Class	Maximum input per manual
Thermal EMF Class	Low thermal design
Operating Temperature Class	Controlled lab
Calibration Interval	Periodic ratio verification
Manufacturer	John Fluke Mfg
Family	720/721 precision dividers
Input Terminals	Binding posts
Output Terminals	Binding posts
Guard Class	Guarded operation practices in manual
Humidity Class	Controlled lab humidity
Warmup	Thermal equilibrium before use
Portability	Limited (standards bench)
Resolution of Ratio	Decade step resolution
Linearity Class	High linearity resistive divider
Operating temperature	Class: Controlled lab

PARAMETER	VALUE
Humidity	Class: Controlled lab humidity

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Controlled lab
Operating Temperature	Class: Controlled lab
Humidity	Class: Controlled lab humidity
Operating Temperature Class	Controlled lab
Calibration Interval	Periodic ratio verification
Manufacturer	John Fluke Mfg
Family	720/721 precision dividers
Input Terminals	Binding posts
Output Terminals	Binding posts
Guard Class	Guarded operation practices in manual
Humidity Class	Controlled lab humidity
Warmup	Thermal equilibrium before use
Portability	Limited (standards bench)
Resolution of Ratio	Decade step resolution
Linearity Class	High linearity resistive divider Notes Precision divider identity from Fluke 721A metrology literature. Authoritative ratio uncertainty and maximum voltage belong in the 721A instruction manual.

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
Instrument Type	Precision DC voltage divider
Model	721A
Quantity Divided	DC voltage
Connection Style	Kelvin/sense capable metrology practice
Form Factor	Benchtop standards instrument
Intended Use	Voltage ratio calibration
Ratio Setting	Decade switches
Accuracy Class	Standards-lab divider class
Stability Class	Low drift resistive network
Power Coefficient Class	Specified in manual
Voltage Rating Class	Maximum input per manual
Thermal EMF Class	Low thermal design
Operating Temperature Class	Controlled lab
Calibration Interval	Periodic ratio verification
Manufacturer	John Fluke Mfg
Family	720/721 precision dividers
Input Terminals	Binding posts
Output Terminals	Binding posts
Guard Class	Guarded operation practices in manual
Humidity Class	Controlled lab humidity
Warmup	Thermal equilibrium before use
Portability	Limited (standards bench)
Resolution of Ratio	Decade step resolution
Linearity Class	High linearity resistive divider

Notes

Precision divider identity from Fluke 721A metrology literature. Authoritative ratio uncertainty and maximum voltage belong in the 721A instruction manual.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.