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Data Sheet

August 15, 2026

FLUKE

Fluke 80E-10 Voltage Divider – 10 kV max.

The Fluke 80E-10 is a voltage divider designed to extend the measurement capability of multimeters to 10 kV. This allows standard multimeters to measure high voltage signals, such as those found in electrical power distribution systems and high-voltage equipment.



MODEL

Fluke 8.00E-09

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8.00E-09

LISTING

<https://aumictechlabs.com/products/8-00e-09-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 80E-10 is a precision high-voltage divider that extends multimeter measurement capabilities to 10 kV DC. It converts high-voltage signals into proportional low-voltage outputs suitable for differential voltmeters and null-type potentiometers, making it essential for characterizing power distribution systems and high-voltage equipment. The instrument features precision wirewound resistors with low temperature coefficient and achieves 0.01% division ratio accuracy within the 18°C to 28°C operating band. Technical Specifications Maximum Input Voltage: 10 kV DC Division Ratios: Divide by 1,000 and divide by 10,000 Output Terminals: 10 V and 1 V proportional outputs on binding posts (3/4" centers) Division Ratio Accuracy: ±0.01% (18°C to 28°C); 2 ppm/°C outside this range (0°C to 50°C) Division Ratio Stability: ±0.01% per year after internal recalibration Panel Meter Accuracy: Approximately 3% of full scale Operating Temperature Range: 0°C to 50°C Input Impedance: Infinite impedance required for specified accuracy; 10 MΩ voltmeters introduce ~0.1% loading error on 10 V output Input Connector:

MS3102A-18-165 (mating connector supplied) Dimensions: 7" H × 8.5" W × 8" D Weight: Approximately 6 pounds Key Features Center-zero panel meter for magnitude and polarity indication Precision wirewound resistive elements with low temperature coefficient Separate grounding binding post on front panel Connector shell connected to chassis ground Meets MIL-T-945A vibration specifications Meets MIL-E-4970A shock requirements (half sine: 20 g, 11 milliseconds) Typical Applications Electrical power distribution system measurements High-voltage equipment characterization High-voltage signal precision measurement Compatibility & Integration Designed for use with Fluke differential voltmeters or null-type potentiometers. Fluke differential voltmeters offer infinite input impedance at null, eliminating loading errors. Case suitable for both bench use and rack mounting.

800E Characteristics / Specifications

PARAMETER	VALUE
Model	80E-10
Maximum Input Voltage	10 kV
Sibling Model 80E5 Maximum Input	5 kV
Output Terminals	10 V and 1 V
Division Ratio Accuracy 18 C to 28 C	0.01 percent for both ratios any input to rated maximum
Temperature Derating Outside 18 C to 28 C	2 ppm perCto 0 C and 50 C
Division Ratio Stability	0.01 percent per year recalibrated by internal adjustment
Operating Temperature	0 C to 50 C
Storage Temperature	minus 35 C to 70 C
Humidity To 28 C	0 to 80 percent
Humidity To 50 C	0 to 60 percent
Operating Altitude	0 to 10000 feet
Nonoperating Altitude	0 to 50000 feet
Vibration	MIL T 945A
Shock	half sine 20 g 11 ms MIL E 4970A bench handling
Height	7 inches
Width	8.5 inches
Depth	8 inches
Mass	approximately 6 pounds
Input Connector	MS3102A 18 16S front panel mating connector supplied
Output Connectors	two binding posts on 0.75 inch centers for each of two outputs
Output Common	one side of each output common to chassis
Case Ground	separate binding post
Form Factor	bench or rack mounting case
Resistors	aged wirewound low temperature coefficient

PARAMETER	VALUE
Panel Meter	center zero magnitude and polarity of unknown high voltage
Humidity	To 28 C: 0 to 80 percent

800E Specifications

PARAMETER	VALUE
Applications	High voltage DC measurement with Fluke differential voltmeters or null potentiometers up to 10 kV.
Key Features	10 kV maximum input
Dual 10 V and 1 V outputs	0.01 percent division ratio accuracy 18 to 28 C
Center zero polarity/magnitude meter	Aged wirewound low TC resistors
Technical Specifications	Model: 80E-10

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 35 C to 70 C
Operating temperature	0 C to 50 C
Operating Temperature	0 C to 50 C
Humidity	To 28 C: 0 to 80 percent
Humidity To 28 C	0 to 80 percent
Humidity To 50 C	0 to 60 percent
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Panel Meter	center zero magnitude and polarity of unknown high voltage Notes From Fluke Model 80E Voltage Dividers instruction specification section for 80E-10. Catalog model token 8-00e-09 is the Excel scientific notation of 80E-10 in the remaining queue.

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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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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NIST-traceable calibration · SAM registered ·
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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.