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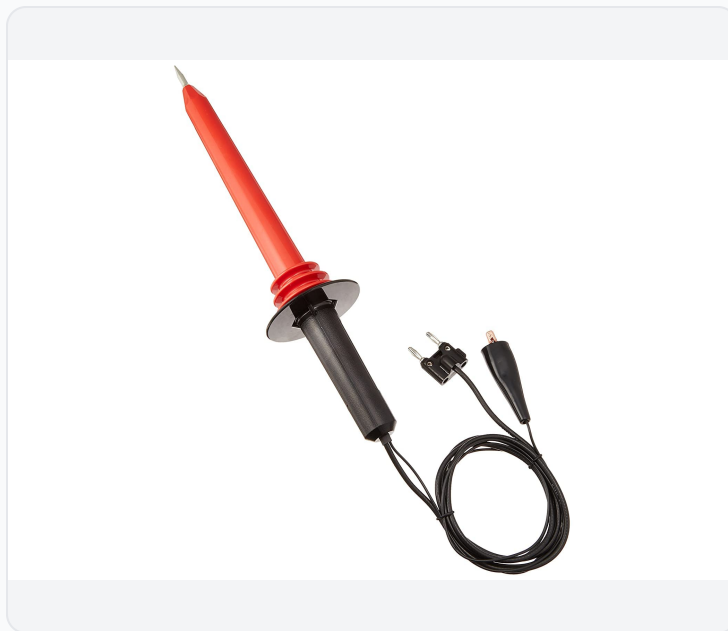
Data Sheet

August 14, 2026

FLUKE

Fluke 80K-40 High Voltage Probe

The Fluke 80K-40 is a passive 1000:1 high-voltage probe that extends AC/DC voltmeter measurements to 40 kV peak on energy-limited Category I circuits. Official Fluke 80K-40/80K-6 instruction sheet lists voltage range 0 to +/-40 kV dc or peak ac (28 kV rms ac), input resistance 1000 Mohm, division ratio 1000:1, DC accuracy 2 percent (0-20 kV and 35-40 kV) and +/-1 percent (20-35 kV at 20-30 C), and AC accuracy 5 percent at 60 Hz. High-voltage measurements inside energy-limited equipment such as CRT and copier supplies, extending 10 Mohm multimeters to 40 kV Category I, and low-energy HV troubleshooting (not power-distribution HV). Safety: IEC 61010-031 Type B Pollution Degree 2 Category I Divider Resistors: RA 999 Mohm RB 1.11 Mohm Specification Ambient Class: laboratory ambient unless OEM table states otherwise Calibration Traceability Class: per OEM calibration certificate From Fluke 80K-40/80K-6 High Voltage Probe Instructions PN 481978. Do not use on power-distribution high voltage; meter accuracy must be added to probe accuracy for system uncertainty.



MODEL

Fluke 80K-40

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

80K-40

LISTING

<https://aumictechlabs.com/products/80k-40-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 80K-40 High Voltage Probe extends the voltage measurement capability of AC/DC voltmeters and multimeters to 40 kV DC or peak AC. Operating as a precision 1000:1 passive voltage divider with 1000 MΩ input impedance, this probe minimizes circuit loading and delivers accurate readings in low-energy applications including CRT circuits, televisions, and

photocopiers. It is not suitable for power distribution system measurements. Technical Specifications Voltage Range 1 kV to 40 kV DC or peak AC 28 kV AC RMS DC Accuracy $\pm 1\%$ from 20 kV to 35 kV at 20°C to 30°C $\pm 2\%$ from 0 kV to 35 kV to 40 kV Add $\pm 1\%$ for 10°C to 30°C to 45°C when measuring 20 kV to 35 kV DC AC Accuracy $\pm 5\%$ at 60 Hz Electrical Characteristics Input impedance: 1000 M Ω Division ratio: 1000:1 Circuit loading: 1 μ A per 1 kV Required meter input impedance: 10 M Ω $\pm 1.0\%$ Safety Rating IEC 61010-2-031:1993, Type B, Overvoltage Category I Altitude derating: Above 2000 m to 5000 m, working voltage derates linearly from 40 kV peak to 28 kV peak; transient overvoltage derates from 80 kV peak to 57 kV peak Key Features High input impedance minimizes measurement circuit loading and distortion Precision matched-resistor voltage divider for stable performance Integrated safety guard protects user during high-voltage measurement Insulated plastic housing provides electrical isolation Dual banana plug connectors (0.75" spacing, 0.160" plugs) with earth ground clip lead Typical Applications Low-energy high-voltage measurement in CRT displays, television circuits, photocopier systems, and similar enclosed environments where voltages to 40 kV require accurate characterization. Compatibility & Integration Achieves rated accuracy with AC/DC voltmeters and multimeters having 10 M Ω $\pm 1.0\%$ input impedance. Compatible with Fluke and most standard DMM models. Operation requires dry conditions (no condensation) within specified temperature ranges.

80K Characteristics / Specifications

PARAMETER	VALUE
Voltage Range DC Or Peak AC	0 kV to +/-40 kV
Voltage Range RMS AC	28 kV
Input Resistance	1000 Mohm
Division Ratio	1000:1
Accuracy DC 0 To 20 kV	2 percent
Accuracy DC 20 To 35 kV	+/-1 percent at 20 C to 30 C
Accuracy DC 20 To 35 kV Temp Adders	add 1 percent at 10 C to less than 20 C and greater than 30 C to 45 C
Accuracy DC 35 To 40 kV	2 percent
Accuracy AC	5 percent at 60 Hz
Required Meter Impedance	10 Mohm +/-1 percent
Circuit Loading	1000 Mohm or 1 uA per 1 kV
Operating Temperature	0 C to 50 C
Storage Temperature	minus 20 C to 60 C
Relative Humidity	80 percent at 30 C; 50 percent at 40 C
Altitude Rating	2000 m (derate above per sheet)
Size LxW	36 cm x 7.5 cm
Weight	204 g
Safety	IEC 61010-031 TypeB Pollution Degree 2 Category I Divider Resistors: RA 999 Mohm RB 1.11 Mohm
Connector	dual banana 0.75 in spacing
Specification Ambient Class	laboratory ambient unless OEM table states otherwise
Calibration Traceability Class	per OEM calibration certificate
Humidity	80 percent at 30 C; 50 percent at 40 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 C to 60 C
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Connector	dual banana 0.75 in spacing
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Calibration Traceability Class	per OEM calibration certificate Notes From Fluke 80K-40/80K-6 High Voltage Probe Instructions PN 481978. Do not use on power-distribution high voltage; meter accuracy must be added to probe accuracy for system uncertainty.

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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Accuracy AC	5 percent at 60 Hz
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Notes

From Fluke 80K-40/80K-6 High Voltage Probe Instructions PN 481978. Do not use on power-distribution high voltage; meter accuracy must be added to probe accuracy for system uncertainty.

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>

NIST-traceable calibration · SAM registered ·
30-day returns
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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.