

# Fluke 45

## Dual Display Multimeter

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### Maximum Versatility In a Single Instrument

The Fluke 45 is a feature-rich 5-digit, 100 000 count meter that truly fits all applications and virtually any measurement need \_ on the workbench or in the field. Two multifunction displays and 16 different measurement capabilities allow wide ranging versatility at an affordable price. The Fluke 45 delivers high performance and flexibility for manufacturing test, depot and field service, as well as R&D applications.

- Multifunction vacuum fluorescent dual display allowing the user to measure two different parameters of the same signal from one test connection, and view both measurements at the same time.
- True-rms voltage and current, including ac + dc
- RS-232 interface standard, IEEE-488.2 option
- Frequency measurement to 1 MHz
- dB measurements: 21 selectable reference impedances. From 2 to 8000, and audio power from 2 $\Omega$  to 16 $\Omega$
- Compare (Hi/Lo/Pass) function for quick in-tolerance tests
- 0.05% dc current accuracy for 4-20 mA current loop service
- Closed-Case Calibration: Calibration can be performed via the RS-232 (or optional IEE-488.2) interface or manually from the front panel. No internal adjustments are required
- Quickstart, accessory software package; allows quick set-up and effortless communication between the Fluke 45 and an IBM PC or compatible. Custom test procedures are easily created, saved, and recalled

# Fluke 45 Dual Display Multimeter Features

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## Features at a Glance:

- Multifunction Vacuum Fluorescent Dual Display
- True-RMS Voltage and Current Measurement, Including AC + DC
- 0.05% DC Current Accuracy for 4-20 mA Current Loop Service
- Standard RS-232 Interface
- Optional IEEE-488.2 Interface
- Frequency Measurement to 1 MHz
- dB Measurements
- MIN/MAX Mode
- RELATIVE Mode
- COMPARE (Hi/Lo/Pass) for Quick In-Tolerance Tests
- Closed Case Calibration
- Optional: Rack-Mount Kit

## Safety Conformance

This meter complies with ANSI/SA S82.01-1994, CAN/CSA-C22.2 No. 1010.1-92, EN61010.1:1993 to 1000 V Overvoltage Cat I, 600 V Overvoltage Cat II and UL3111-1.

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# Fluke 45 Dual Display Multimeter Specifications

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Specifications	
VDC	Range: 0V-1000V Resolution: 1 $\mu$ V-0.01V Best Accuracy: $\pm 0.025\% + 2^*$
VAC (True-rms, AC Coupled) Freq. 20 Hz-100 khz	Range: 0V-750V Resolution: 1 $\mu$ V-0.01V Best Accuracy: $\pm 0.2\% + 10^*$
dB Readout (600 $\Omega$ Ref.) (Ref. Z 2 $\Omega$ -8000 $\Omega$ )	Range: -34 $\pm$ 60 Resolution: 0.01 dB-0.1 dB Best Accuracy: $\pm 0.08$ dBm *
ADC	Range: 0 mA-10A Resolution: 0.1 $\mu$ A-10 mA Best Accuracy: $\pm 0.05\% + 2^*$
AAC (True-rms, AC Coupled) Freq. 20 Hz-20 khz	Range: 15 $\mu$ A-10A Resolution: 0.1 $\mu$ A-10 mA Best Accuracy: $\pm 0.5\% + 10^*$
Resistance	Range: 0 $\Omega$ -100 M $\Omega$ Resolution: 0.001 $\Omega$ -1m $\Omega$ Best Accuracy: $\pm 0.05\% + 2^*$
Frequency	Range: 5 Hz - 1 MHz Resolution: .01 Hz-1 kHz Best Accuracy: $\pm 0.05\% + 1^*$
Size	216 mm W x 93 mm H x 286 mm D (8.5" W x 3.67" H x 11.27" D)
Weight	Net 2.4 kg (5.2 lb); with battery 3.2 kg (7 lb)
One Year Warranty	One year calibration interval

\*Medium reading rate

# Fluke 45 Dual Display Multimeter Models, Options & Accessories

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<b>Model Name</b>	<b>Product Description</b>
Fluke 45	Dual Display Multimeter
Fluke 45-01	With Factory-Installed Battery
Fluke 45-05	With Factory-Installed IEEE-488.2 Interface
Fluke 45-15	With Factory-Installed Battery and IEEE-488.2 Interface

## Available Accessories and Options

<b>Model Name</b>	<b>Accessory or Option Description</b>
C40	Carrying Case
M00-200-634	Rack Mount Kit
RS40	RS-232C to Terminal Cable: Connects to PC/XT, PS/2
RS41	RS-232C to Modem Cable (Join w/RS40 to connect to PC/AT)

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