

# 45 Dual Display Multimeter

True RMS

Maximum versatility in a single instrument



勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
 Http://www.100y.com.tw

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 2Ω to 16Ω
- 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 IEEE-488.2) interface or manually from the front panel. No internal adjustments are required
- FlukeView Forms software including interface cable

### Safety Conformance

All inputs are protected to EN61010-1 CAT II 600V and CAT I 1000V. UL listed.

## Features

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
Touch Hold*
Diode Test/Continuity

## Specifications

Display: 3000 Counts, 30 000 Counts, 100 000 Counts			
Reading Rates: Fast (20 times per second), Medium (5 times per second), Slow (2.5 times per second)			
Function	Range	Best Accuracy (medium reading rate)	Resolution
VDC	300mV-1000V	±0.025% + 2	1 μV-0.01V
VAC (True-RMS, AC Coupled) Freq. 20 Hz-100 kHz	300mV-750V	±0.2% + 10	1 μV-0.01V
dB Readout (600 Ω Ref.) (Ref. Z 2Ω -8000Ω)	-34-+60	±0.08 dBm	0.01 dB-0.1 dB
ADC	30 mA-10A	±0.05% + 2	0.1 μA-10 mA
AAC (True-RMS, AC Coupled) Freq. 20 Hz-20 kHz	10 mA-10A	±0.5% + 10	0.1 μA-10 mA
Resistance	300Ω-100 MΩ	±0.05% + 2	0.001Ω-1 MΩ
Frequency	5 Hz->1 MHz	±0.05% + 1	0.01 Hz-1 kHz

**Range & Resolution:** If selected range is 100.000mV the resolution is 0.001mV in that range

**Size (h x b x d):** 216 mm x 93 mm x 286 mm

**Weight:** Net 2.4 kg; with battery 3.2 kg

**One Year Warranty:** One year calibration interval

## Accessories and Ordering Information

### Included Accessories

Line cord, TL 71 test leads, operator's manual, and Quick Reference Guide.

### Options

Field/customer installable: Fluke 45-01K

Rechargeable Lead-Acid Battery Kit

Fluke 45-05K IEEE-488.2 Interface Kit

### Optional Accessories

C40 Soft Carrying Case

M00-200-634 Rack Mount Kit

RS40 6' RS-232 Terminal Cable

RS41 6' RS-232 Modem Cable

FVF-SC3 FlukeView Forms software including interface cable

### Ordering Information

Fluke 45 Dual Display Multimeter 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

FVF-SC3 FlukeView Forms software inklusive interface-kabel