

45 Dual Display Multimeter

Maximum versatility in a single instrument

True-rms





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

 S45
 QuickStart™ 45 Software

Ordering Information

Fluke 45 Dual Display Multimeter Fluke 45-01 with Factory-Installed

Battery

Fluke 45-05 with Factory-Installed

Fluke 45-15 IEEE-488.2 Interface with Factory-Installed

Battery and IEEE-488.2

Interface

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 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

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)				
		(medium reading rate)		
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 -8000 Ω)	-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 ΜΩ	±0.05% + 2	0.001Ω-1 ΜΩ	
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