

45 Dual Display Bench Multimeter

FLUKE®



Fluke 45

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.

The Fluke 45 delivers high performance and flexibility for manufacturing test, depot and field service, as well as R&D applications.

Use optional FlukeView® Forms software to communicate through the Fluke 45's standard serial port.

Features

	45
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
Voltage DC	300mV–1000V	$\pm 0.025\% + 2$	1 μ V–0.01V
Voltage AC (True-RMS, AC Coupled) Freq. 20 Hz–100 kHz	300mV–750V	$\pm 0.2\% + 10$	1 μ V–0.01V
dB Readout (600 Ω Ref.) (Ref. Z 2Ω –8000 Ω)	–34–+60	± 0.08 dBm	0.01 dB–0.1 dB
Current DC	30 mA–10A	$\pm 0.05\% + 2$	0.1 μ A–10 mA
Current AC (True-RMS, AC Coupled) Freq. 20 Hz–20 kHz	10 mA–10A	$\pm 0.5\% + 10$	0.1 μ A–10 mA
Resistance	300 Ω –100 M Ω	$\pm 0.05\% + 2$	0.001 Ω –1 M Ω
Frequency	5 Hz–>1 MHz	$\pm 0.05\% + 1$	0.01 Hz–1 kHz

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

Size (H x W x D): 216 mm x 93 mm x 286 mm

Weight: Net 2.4 kg; with battery 3.2 kg

One Year Warranty

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

M00–200–634 Rack Mount Kit
RS40 6' RS-232 Terminal Cable
RS41 6' RS-232 Modem Cable

Ordering Information

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
FVF–SC3 FlukeView Forms software including interface cable

Recommended Accessories



TL81A



TL910



TL40



TLK-225



FVF-SC3