

Fluke 77 IV Series Digital Multimeter



Overview

Versatile meters for field service or bench repair.

The Fluke 77-IV [digital multimeter](#) has the features needed to repair most electrical and electronic problems. This meter is simple to use and has significant improvements over Fluke's original 70 Series with more measurement functions, conformance to the latest safety standards, and a much larger display that's easier to view.

It measures:

- Wide 1000 V measurement range
- Average responding AC measurements
- 0.3% accuracy
- 10 Amps continuous (20A for 30 seconds)
- Frequency and capacitance
- Resistance and continuity

Features



- Large display
- Backlight for work in dim areas
- Min / Max to record signal fluctuations
- Ergonomic overmolded housing with integrated probe holders
- Free your hands with the optional TPAK magnetic hanger
- Auto and Manual ranging
- Meets Measurement Category 1000 V CAT III and Category IV 600 V

safety standards

The 77-IV replaces the 77. Move up to superior utility and safety today.

Specifications

Specifications	
Voltage DC	Range: 6.000V – 1000V Best Accuracy: +/- (0.3 % + 1) Best Resolution: 0.1 mV
Voltage AC	Range: 600.0 mV–1000V Best Accuracy: +/- (2.0 % + 2) Best Resolution: 1.0 mV
Amps AC	Range: 60.00 mA – 10A Best Accuracy: 2.5 % + 2 Best Resolution: 0.01mA
Amps DC	Range: 60.00 mA – 10A Best Accuracy: 1.5 % + 2 Best Resolution: 0.01 mA
Resistance	Range: 600.0 Ω – 50 M Ω Best Accuracy: +/- (0.5 % + 1) Best Resolution: 0.1 Ω
Capacitance	Range: 1nF– 9,999 μ F Best Accuracy: +/- (1.2 % + 2) Best Resolution: 1 nF
Frequency	Range: 99.99Hz– 99.99kHz Best Accuracy: +/- (0.1 % + 1) Best Resolution: 0.01Hz

Safety	ANSI/ISA S82.02.01, CSA C22.2-1010.1, IEC 61010 to 1000 V Measurement Category III, 600 V Measurement Category IV
Certifications	CSA, TÜV (EN61010), UL, П, ; (N10140), VDE

General Specifications	
Maximum voltage between any terminal and earth ground	1000V
Surge protection	8 kV peak per IEC 61010
Ω Fuse for mA inputs	440 mA, 1000 V FAST Fuse
Ω Fuse for A inputs	11 A, 1000 V FAST Fuse
Display	Digital: 6000 counts, updates 4/sec Bar Graph: 33 segments; Updates 32/sec Frequency: 10,000 counts Capacitance: 1,000 counts
Altitude	Operating: 2,000 meters Storage: 12,000 meters
Temperature	Operating: -10 °C to +50 °C Storage: -40 °C to +60 °C
Temperature Coefficient	0.1 X (specified accuracy / °C (< 18 °C or > 28 °C))
Electromagnetic Compatibility (EN 61326-1:1997)	In an RF field of 3 V/M, accuracy = specified accuracy except in temperature: specified accuracy ± 5 °C (9 °F)
Relative Humidity (Maximum Non-condensing)	90 % to 35 °C 75 % to 40 °C 45 % to 50 °C
Battery Life	400 Hours Typical (Alkaline)
Size	Height: 4.3 cm Width: 9 cm Length: 18.5 cm
Weight	420 g