

Fluke 77IV Digital Multimeter



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Versatile multimeter for field service or bench repair

The Fluke 77IV 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 is easier to view.

- Wide 1000 V measurement range
- Average responding AC measurements
- 0.3% accuracy
- 10 amps continuous
- Frequency and capacitance
- Resistance and continuity
- Large display
- Backlight for work in dim areas
- Min/Max to record signal fluctuations
- Integral holster with probe holders
- Free your hands with the optional TPAK magnetic hanger
- Auto and manual ranging
- Limited lifetime manufacturer's warranty

| Function | Maximum | Max. resolution | Accuracy |
|-------------|-----------|-----------------|-----------|
| Voltage DC | 1000 V | 1 mV | ±(0.3%+1) |
| Voltage AC | 1000 V | 1 mV | ±(2.0%+2) |
| Current DC | 10 A | 0.01 mA | ±(1.5%+2) |
| Current AC | 10 A | 0.01 mA | ±(2.5%+2) |
| Resistance | 50 MΩ | 0.1 Ω | ±(0.5%+1) |
| Capacitance | 9,999 μF | 1 nF | ±(1.2%+2) |
| Frequency | 99.99 kHz | 0.01 Hz | ±(0.1%+1) |

Accuracies are best accuracies for each function.

General Specifications

Accuracy is specified for one year after calibration, at operating temperatures of 18° C to 28° C, with relative humidity at 0% to 90%. Accuracy specifications take the form of ±[% of Reading] + [Counts].

| Specifications | 77IV |
|---|---|
| V Maximum voltage between any terminal and earth ground | 1000 V |
| Surge protection | 8 kV peak per IEC 61010-2-033 |
| Fuse for mA input | 440 mA, 1000 V FAST Fuse |
| Fuse for A input | 11 A, 1000 V FAST Fuse |
| Display | Digital: 6000 counts, updates 4/sec |
| Bar Graph | 33 segments, updates 32/sec |
| Frequency | 10000 counts |
| Capacitance | 1000 counts |
| Operating altitude | 2000 m |
| Storage altitude | 12000 m |
| Operating temperature | -10° C to 50° C (14° F to 122° F) |
| Storage temperature | -40° C to 60° C (-40° F to 140° F) |
| Temperature coefficient | 0.1 × (specified accuracy/° C (< 18° C or > 28° C) (< 64.4° F or > 82.4° F)) |
| Electromagnetic compatibility (EN 61326-1:1997) | In an RF field up to 3 V/m, accuracy = specified accuracy except in temperature: specified accuracy ±5° C |
| Relative humidity (maximum non-condensing) | 90% to 35° C; 75% to 40° C; 45% to 50° C (90% to 95° F; 75% to 104° F; 45% to 122° C) |
| Battery life | 400 hours |
| Size (H×W×L) and Weight | 185 × 90 × 43 mm (7.28 × 3.54 × 1.70 in); 420 g (14.81 oz) |
| Safety compliance | IEC 61010-2-033; CAT III 1000 V, CAT IV 600 V |
| Certifications | CSA |

Recommended Accessories



Included Accessories

TL75 Test Leads, 9V battery (installed), manual information pack.

Ordering Information

FLUKE-77-4 Digital Multimeter

Contact your local distributor for price and availability.
fluke.com/usb

Digital Multimeters

