
Fluke 16 Multimeter with Thermometer



Features at a Glance:

It's a thermometer

The Fluke 16 measures temperature quickly and accurately. Standard equipment includes an 80BK integrated DMM temperature probe.

It's a flame rod circuit tester

A microamp function is included for flame sensor measurements down to 0.1 microamps.

It's a multimeter with capacitance

Use the Fluke to test motor start and run capacitors up to 10,000 microfarads. Rely on the Fluke 16 to make your everyday measurements - up to 600 volts ac or dc, 40 megohms, diode test and exceptionally fast continuity.

- Accurate temperature measurement from -40 to 750°F (-40 to 400°C)
- (500°F with supplied probe)
- Confidently test flame sensor circuits with microamp measurement down to 0.1 microamps
- Capacitance up to 10,000 microfarads
- Min/Max recording with relative time stamp records the highest and lowest voltage readings during a 100-hour period
- Auto-ranging
- High resistance ranges to 40 megohms
- Millivolt range for compatibility with other accessories V-Check™ mode is designed for safety.
- When measuring ohms, continuity, or diode test modes, the meter automatically switches to measuring ac or dc volts if more than 4.5V is present
- Continuity Capture™ locates intermittent opens as brief as 250 microseconds and identifies them in a symbolic display as short-to-open or open-to-short
- Sleep mode preserves battery life
- 4000 count digital display

Meter includes

80BK integrated DMM temperature probe, TL75 Test Leads, and C10 Holster

Fluke 16 Multimeter with Thermometer Specifications

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DC Volts Specifications

Range 4000 mV *	Resolution: 1 mV Accuracy: 0.9% + 2
Range 4.000 V	Resolution: 0.001 V Accuracy: 0.9% + 2
Range 40.00 V	Resolution: 0.01 V Accuracy: 0.9% + 1
Range 400.0 V	Resolution: 0.1 V Accuracy: 0.9% + 1
Range 600 V	Resolution: 1 V Accuracy: 0.9% + 1

*The 4000 mV range can only be entered in manual range mode.
Use the 4000 mV range with accessories.

AC Volts Specifications

Range 4000 mV *	Resolution: 1 mV Accuracy: 1.9% + 3
Range 4.000 V	Resolution: 0.001 V Accuracy: 1.9% + 3
Range 40.00 V	Resolution: 0.01 V Accuracy: 1.9% + 3
Range 400.0 V	Resolution: 0.1 V Accuracy: 1.9% + 3
Range 600 V	Resolution: 1 V Accuracy: 1.9% + 3

*The 4000 mV range can only be entered in manual range mode.
Use the 4000 mV range with accessories.

Current (AC/DC) Specifications

Range 200 μ A	Resolution: 0.1 μ A Accuracy: 0.5% + 2
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Ohms Specifications

Range 400.0 Ω	Resolution: 0.1 Ω Accuracy: 0.9% + 2
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Range 4.000 KΩ	Resolution: 0.001 K Ω Accuracy: 0.9 % + 1
Range 40.00 KΩ	Resolution: 0.01 K Ω Accuracy: 0.9% + 1
Range 400.0 KΩ	Resolution: 0.1 K Ω Accuracy: 0.9% +1
Range 4.000 MΩ	Resolution: 0.001 M Ω Accuracy: 0.9% +1
Range 40.00 MΩ	Resolution: 0.01 M Ω Accuracy: 1.5% +3

Capacitance Specifications *

Range 1.000 μF	Resolution: 0.001 μ F Accuracy: 1.9% + 2
Range 10.00 μF	Resolution: 0.01 μ F Accuracy: 1.9% + 2
Range 100.0 μF	Resolution: 0.1 μ F Accuracy: 1.9% + 2
Range 1000 μF	Resolution: 1.0 μ F Accuracy: 1.9% + 2
Range 10,000 μF	Resolution: 10.0 μ F Accuracy: 10% + 90 typical

*The accuracy specification is for capacitors that have negligible dielectric absorption. Capacitance measured with rc charge technique that evaluates $C = Q/V$. Capacitors with non-negligible dielectric absorption can be measured but measurement values may be in error.

Temperature Specifications *

Range 15 to 750 $^{\circ}$F	Resolution: 0.1 $^{\circ}$ F Accuracy: 1% + 1.5 $^{\circ}$ F typical
Range -40 to 15 $^{\circ}$F	Resolution: 0.1 $^{\circ}$ F Accuracy: 5% + 2.7 $^{\circ}$ F
Range -10 to 400 $^{\circ}$C	Resolution: 0.1 $^{\circ}$ C Accuracy: 1% + 0.8 $^{\circ}$ C typical
Range -40 to 10 $^{\circ}$C	Resolution: 0.1 $^{\circ}$ C Accuracy: 5% + 1.5 $^{\circ}$ C

*Temperature accuracy specifications do not include the error of the thermocouple.

Safety

600V ac/dc	Maximum voltage between any terminal and earth ground. Conforms to the requirements of IEC-1010-1, 1990-09 and ANSI/ISA-S82.01-94 for use in Overvoltage Category III locations. Make ac or dc voltage measurements on electrical distribution systems to 600V where transients do not exceed 6 kV and only on circuits limited to 14 kVA if the circuit voltage rating is above 250V.
Certification agencies (approvals/listings pending)	UL Per standard UL 3111 CSA Per standard CSA/CAN C22.2 No.1010.1-92 TsV Per standard EN61010 Part 1-1993
Drop test	ANSI/ISA-S82.01-94 and EN61010 Part1-1993. 10 ft. drop to hardwood on concrete

General Specifications

Size	(HxWxL) 1.12" x 2.95" x 6.55", (2.8 cm x 7.5 cm x 16.6 cm)
Battery life	650 hours with Alkaline
Weight	12 oz (340g)
Warranty	Three years