

TECHNICAL DATA

Fluke 15B+ Digital Multimeter



Key features

- 600 V Cat III safety rating
- AC/DC voltage measurement up to 1000V
- AC/DC current measurement up to 10A
- Measures voltage, resistance, continuity, capacitance
- Diode test, data hold
- Large easy-to-read display with bright white backlight

Product overview: Fluke 15B+ Digital Multimeter

Fluke quality is always within your reach

Unlock professional-grade precision, durability, and safety with the Fluke 15B+ Digital Multimeter. The Fluke 15B+ packs all the core functionality you need in a digital multimeter into a portable, rugged form tool that's easy-to-use with one hand, even with gloves on. From AC/DC voltage and current measurements up to 1000V and 10A, to comprehensive capabilities including resistance, capacitance, and frequency checks, the 15B+ is your go-to for troubleshooting a wide array of electrical issues.

The CAT III 600V safety rating provides peace of mind for everything from routine checks on electrical equipment and appliances, to checking voltage levels at power outlets or switches, to diagnosing issues with circuits. Ideal for both DIY enthusiasts and early career electricians looking to streamline their toolkit, the Fluke 15B+ is a reliable and versatile addition to your toolkit.

Specifications: Fluke 15B+ Digital Multimeter

Accuracy Specifications

Accuracy is specified for 1 year after calibration, at operating temperatures of 18 °C to 28 °C, relative humidity at 0% to 75%. Accuracy specifications take the form of: $\pm(\% \text{ of Reading} + \text{Number of Least Significant Digits})$.

Function	Range	Resolution	Accuracy
AC volts (40 Hz to 500Hz) ¹	4.000 V 40.00 V 400.0 V 1000 V	0.001 V 0.01 V 0.1 V 1 V	1.0% + 3
DC volts	4.000 V 40.00 V 400.0 V 1000 V	0.001 V 0.01 V 0.1 V 1 V	0.5% + 3
AC millivolts	400.0 mV	0.1 mV	3.0% + 3
DC millivolts	400.0 mV	0.1 mV	1.0% + 10
Diode test ²	2.000 V	0.001 V	10%
Resistance (Ohms)	400.0 Ω 4.000 k Ω 40.00 k Ω 400.0 k Ω 4.000 M Ω 40.00 M Ω	0.1 Ω 0.001 k Ω 0.01 k Ω 0.1 k Ω 0.001 M Ω 0.01 M Ω	0.5% + 3 0.5% + 2 0.5% + 2 0.5% + 2 0.5% + 2 1.5% + 3
Capacitance ³	40.00 nF 400.0 nF 4.000 μ F 40.00 μ F 400.0 μ F 1000 μ F	0.01 nF 0.1 nF 0.001 μ F 0.01 μ F 0.1 μ F 1 μ F	2% + 5 2% + 5 5% + 5 5% + 5 5% + 5 5% + 5
AC current μ A (40 Hz to 400 Hz)	400.0 μ A 4000 μ A	0.1 μ A 1 μ A	1.5% + 3
AC current mA (40 Hz to 400 Hz)	40.00 mA 400.0 mA	0.01 mA 0.1 mA	1.5% + 3
AC current A (40 Hz to 400 Hz)	4.000 A 10.00 A	0.001 A 0.01 A	1.5% + 3
DC current μ A	400.0 μ A 4000 μ A	0.1 μ A 1 μ A	1.5% + 3
DC current mA	40.00 mA 400.0 mA	0.01 mA 0.1 mA	1.5% + 3
DC current A	4.000 A 10.00 A	0.001 A 0.01 A	1.5% + 3
Backlight	Yes		

¹AC volts are specified from 1% to 100% of range. Inputs below 1% of range are not specified.

²Typically, open circuit test voltage is 2.0 V and short circuit current is <0.6 mA.

³Specifications do not include errors due to test lead capacitance and capacitance floor (may be up to 1.5 nF in the 40 nF range).

Function	Overload protection	Input impedance (Nominal)	Common mode rejection ratio	Normal mode rejection ratio
AC volts	1000 V ¹	>10 MΩ <100 pF	>60 dB at dc, 50 Hz or 60 Hz	-
AC millivolts	400 mV	>1MΩ, <100 pF	>80 dB at 50 Hz or 60 Hz	-
DC volts	1000 V ¹	>10 MΩ <100 pF	>100 dB at dc, 50 Hz or 60 Hz	>60 dB at 50 Hz or 60 Hz
DC millivolts	400 mV	>1MΩ, <100 pF	>80 dB at 50 Hz or 60 Hz	-
¹ 10 ⁶ V Hz Max				
General specifications				
Maximum voltage between any terminal and earth ground		1000 V		
Display (LCD)		4000 counts, updates 3/sec		
Battery type		2 AA, NEDA 15A, IEC LR6		
Battery life		500 hours minimum		
Temperature				
Operating		0 °C to 40 °C		
Storage		-30 °C to 60 °C		
Relative humidity				
Operating humidity		Non-condensing (<10°C) ≤90% RH at 10 °C to 30 °C; ≤75% RH at 30 °C to 40 °C		
		40 MΩ range ≤80% RH at 10 °C to 30 °C; ≤70% RH at 30 °C to 40 °C		
Altitude				
Operating		2000 m		
Storage		12,000 m		
Temperature coefficient		0.1 X (specified accuracy) /°C (<18 °C or >28 °C)		
Fuse protection for current inputs		440 mA, 1000 V Fast Fuse, Fluke specified part only. 11A, 1000V Fast Fuse, Fluke specified part only.		
Size (H x W x L)		183 x 91 x 49.5 mm		
Weight		455 g		
IP rating		IP 40		
Safety		IEC 61010-1, IEC61010-2-030 CAT III 600 V, Pollution Degree 2		
Electromagnetic Compatibility		IEC 61326-1: Portable EMC Environment		

Class A equipment (industrial broadcasting & communication equipment)¹

¹ This product meets requirements for industrial (Class A) electromagnetic wave equipment and seller or user should take notice of it. This equipment is intended for use in business environments and is not to be used in homes.

Ordering information

**FLUKE-15B+**

Fluke 15B+ Digital Multimeter

Includes:

- Fluke 15B+ Digital Multimeter
- Fluke TL75 Test Leads
- 2 AA Batteries
- Users Manual

Fluke. *Keeping your world up and running.®*

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