

FLUKE

Fluke 18B+ Digital Multimeter



Description

MULTIMETER 18B+ FLUKE

Use 18B+ multimeter to check and test most electronic products. The instrument is easy to use and is significantly improved compared with the original Fluke 18B. Applicable to anyone engaged in electronic maintenance and manufacturing Settings.

Feature:

600 V Cat III safety design index.

The display range is 50% and the backlight is bright white.

Intelligent LED test lighting LED (regardless of polarity) allows you to test LED in two modes:

DMM LED socket test mode.

LED test mode on UUT (PCBA) (using test lead)

Voltage, resistor, current, capacitance.

Diode testing, data retention.

Frequency and duty ratio.

The input terminal's ac and dc current measurements are 10A

Technical indicators

Precision specifications

Can keep 1 year after the calibration accuracy, the work temperature of 18 ° C to 28 ° C, relative humidity of 0% to 75%. The precision form is as follows: + / + ([reading %] + [lowest effective digit]).



Function voltage (40 Hz – 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 voltage	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 voltage (millivolt)	400.0 mV	0.1 mV	3.0 % + 3
Dc voltage (millivolt)	400.0 mV	0.1 mV	1.0 % + 10
Diode test	2.000 V	0.001 V	10%
Resistance (ohm)	400.0 Ω 4.000 kΩ 40.00 kΩ 400.0 kΩ 4.000 MΩ 40.00 MΩ	0.1 Ω 0.001 kΩ 0.01 kΩ 0.1 kΩ 0.001 MΩ 0.01 MΩ	0.5 % + 3 0.5 % + 2 0.5 % + 2 0.5 % + 2 0.5 % + 2 1.5 % + 3
Capacitance	40.00 nF 400.0 nF 4.000 μF 40.00 μF 400.0 μF 1000 μF	0.01 nF 0.1 nF 0.001 μF 0.01 μF 0.1 μF 1 μF	2 % + 5 2 % + 5 5 % + 5 5.0 % + 5 5 % + 5 5 % + 5
frequency ¹ Hz (10 Hz – 100 kHz)	50.00 Hz 500.0 Hz 5.000 kHz 50.00 kHz 100.0 kHz	0.01 Hz 0.1 Hz 0.001 kHz 0.01 kHz 0.1 kHz	0.1 % + 3
Duty ratio ¹	1 % – 99 %	0.1%	1 %, Typical case ⁴
Alternating current μA (40 Hz – 400 Hz)	400.0 μA 4000 μA	0.1 μA 1 μA	1.5 % + 3
Alternating current mA (40 Hz – 400 Hz)	40.00 mA 400.0 mA	0.01 mA 0.1 mA	1.5 % + 3



Alternating current A (40 Hz – 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

1, the range of all current, frequency and duty ratio is 1 % to 100 % of the range. The input value is not specified below the range of 1 %.

2, Normally, the open circuit test voltage is 2.0v and short-circuit current < 0.6ma.

3, The specification does not include the error caused by the test lead capacitance and capacitance plate (the maximum error is 1.5nf when the range is 40 nF).

4, usually means that the frequency is 50 Hz or 60 Hz, which is between 10 % and 90 %.

Function	luminance range	measuring range	resolution	precision.
LED VF test 1(LED test socket)	1.00 to 6.00 V	NA	N/A	NA
LED VF test 2 (test lead)	1.00 to 6.00 V	1.00 to 6.00 V	0.01 V	10 % ³
Breaking threshold	NA	N/A	NA	70 Ω

1. Open circuit test voltage is plus or minus 12 V, short circuit current > + 5 mA (usually)

2 open circuit test voltage is plus or minus 12 V, short circuit current > plus or minus 3 mA (usually)

3 VF measurement, the driving current is lower than 2.2 + 0.4ma.

Function,	overload protection	input impedance (nominal value)	common mode rejection ratio,	conventional mode rejection ratio.
Ac voltage	1000 V ¹	>10 M Ω <100 pF	In direct current, 50 Hz or 60 Hz, greater than 60 dB.	–
Ac voltage (millivolt)	400 mV	>1M Ω , <100 pF	At 50 Hz or 60 Hz, greater than 80 dB.	–
Dc voltage	1000 V ¹	>10 M Ω <100 pF	In direct current, 50 Hz or 60 Hz, greater than 100 dB.	At 50 Hz or 60 Hz, greater than 60 dB.
Dc voltage (millivolt)	400 mV	>1M Ω , <100 pF	At 50 Hz or 60 Hz, greater than 80 dB.	