TECHNICAL DATA

Fluke 15B MAX Economical Digital Multimeter

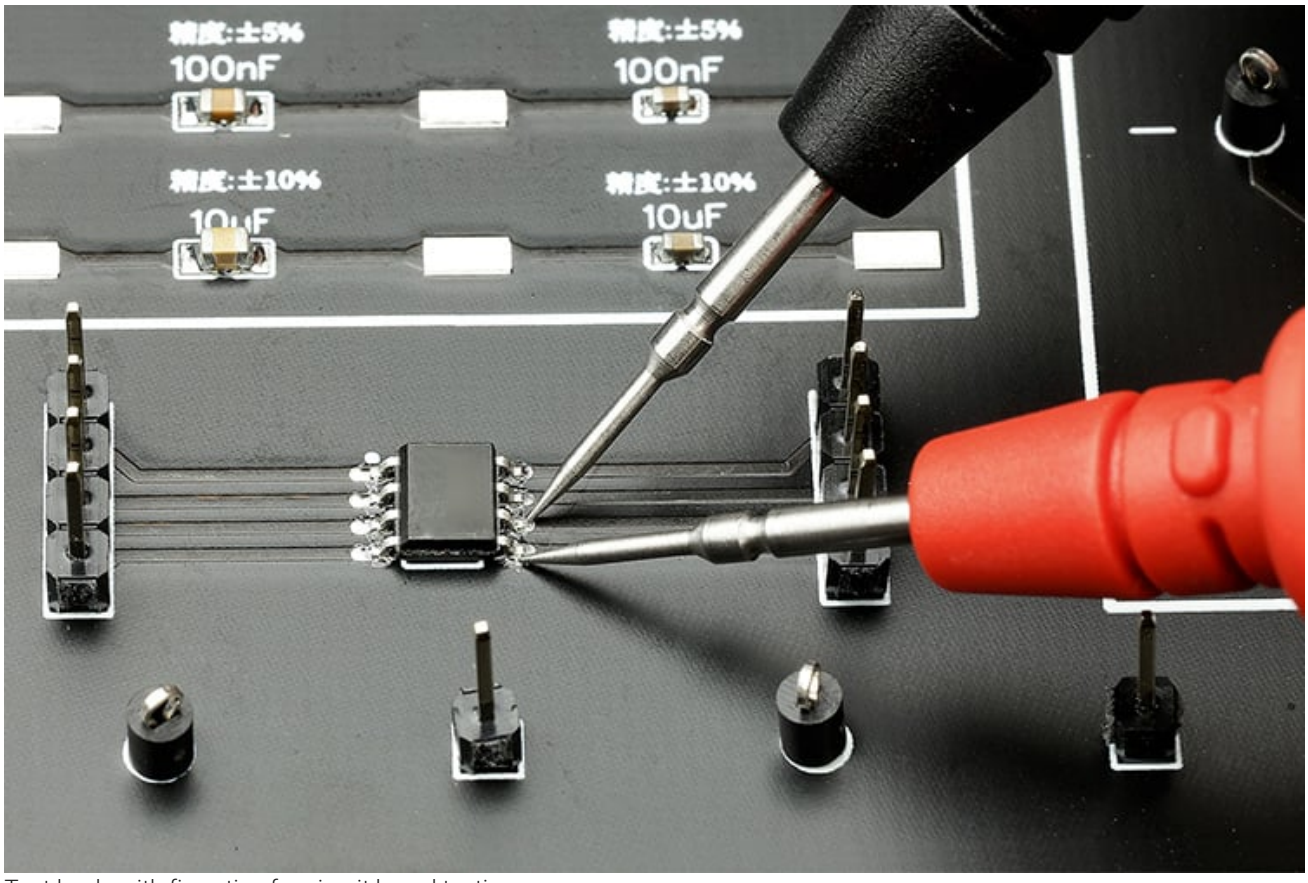
Key features

- Audible and visual alarm for incorrect connections
- Test leads with fines tips for circuit board testing
- Simple interface to wake meter from sleep mode by activating any buttons
- Voltage: 6000-count reading
- Capacitance range: 2000uF
- Safety rating: CATIII 600V

Product overview: Fluke 15B MAX Economical Digital Multimeter

Fluke 15B MAX Inherits and continues the classic design of 15B+, with further improved functions: Input Alert Alarm, Simple interface to wake meter from sleep mode by activating any buttons, test leads with fine probes to help electricians and electronic R&D personnel make accurate measurements.

Audible and visual alarm for incorrect connections



Test leads with fines tips for circuit board testing

Specifications: Fluke 15B MAX Economical Digital Multimeter

Specifications

Accuracy is specified for 1 year after calibration, at operating temperatures of 18 u00b0C to 28 u00b0C, relative humidity at 0 % to 75 % Accuracy specifications take the form of: u00b1 ([% of Reading] + [Number of Least Significant Digits]).

Function	Range	Resolution	Accuracy	
			15B MAX	17B MAX
AC Volts (40 Hz to 500 Hz)[1]	6.000 V tt60.00 V tt600.0 V tt1000 V	0.001 V tt0.01 V tt0.1 V tt1 V	1.0 % + 3	1.0 % + 3
AC Millivolts	600.0 mV	0.1 mV	3.0 % + 3	3.0 % + 3
DC Volts	6.000 V tt60.00 V tt600.0 V tt1000 V	0.001 V tt0.01 V tt0.1 V tt1 V	0.5 % + 3	0.5 % + 3
DC Millivolts	600.0 mV	0.1 mV	1.0 % + 10	1.0 % + 10
AC Current u03bcA (40 Hz to 400 Hz)[2]	400.0 u03bcA tt4000 u03bcA	0.1 u03bcA tt1 u03bcA	1.5 % + 3	1.5 % + 3
AC Current mA (40 Hz to 400 Hz)[2]	40.00 mA tt400.0 mA	0.01 mA tt0.1 mA	1.5 % + 3	1.5 % + 3
AC Current A (40 Hz to 400 Hz)[2]	4.000 A tt10.00 A	0.001 A tt0.01 A	1.5 % + 3	1.5 % + 3
DC Current u03bcA[2]	400.0 u03bcA tt4000 u03bcA	0.1 u03bcA tt1 u03bcA	1.5 % + 3	1.5 % + 3
DC Current mA[2]	40.00 mA tt400.0 mA	0.01 mA tt0.1 mA	1.5 % + 3	1.5 % + 3
DC Current A[2]	4.000 A tt10.00 A	0.001 A tt0.01 A	1.5 % + 3	1.5 % + 3
Diode Test[3]	2.000 V	0.001 V	10%	10%
Temperature 4	50.0 u00b0C to 400.0 u00b0C tt0 u00b0C to 50.0 u00b0C tt-55.0 u00b0C to 0 u00b0C	0.1 u00b0C	NA	2 %+1 u00b0C tt2 u00b0C tt9 %+2 u00b0C
Resistance (Ohms)[5]	400.0 u03a9 tt4.000 ku03a9 tt40.00 ku03a9 tt400.0 ku03a9 tt4.000 Mu03a9 tt40.00 Mu03a9	0.1 u03a9 tt0.001 ku03a9 tt0.01 ku03a9 tt0.1 ku03a9 tt0.001 Mu03a9 tt0.01 Mu03a9	0.5 % + 3 tt0.5 % + 2 tt0.5 % + 2 tt0.5 % + 2 tt0.5 % + 2 tt1.5 % + 3	0.5 % + 3 tt0.5 % + 2 tt0.5 % + 2 tt0.5 % + 2 tt0.5 % + 2 tt1.5 % + 3
Capacitance[6]	40.00 nF tt400.0 nF tt4.000 u03bcF tt40.00 u03bcF tt400.0 u03bcF tt2000 u03bcF	0.01 nF tt0.1 nF tt0.001 u03bcF tt0.01 u03bcF tt0.1 u03bcF tt1 u03bcF	2 % + 5 tt2 % + 5 tt5 % + 5 tt5 % + 5 tt5 % + 5 tt5 % + 5	2 % + 5 tt2 % + 5 tt5 % + 5 tt5 % + 5 tt5 % + 5 tt5 % + 5

Specifications **Accuracy is specified for 1 year after calibration, at operating temperatures of 18 u00b0C to 28 u00b0C, relative humidity at 0 % to 75 % Accuracy specifications take the form of: u00b1 ([% of Reading] + [Number of Least Significant Digits]).**				
Frequency[1] (10 Hz to 100 kHz)	50.00 Hz tt500.0 Hz tt5.000 kHz tt50.00 kHz tt100.0 kHz	0.01 Hz tt0.1 Hz tt0.001 kHz tt0.01 kHz tt0.1 kHz	NA	0.1 % + 3
Duty Cycle[1]	1% to 99%	0.10%	NA	1 % typical[7]
Continuity Threshold	u2014	u2014	70u03a9	70u03a9
Backlight	u2014	u2014	Yes	Yes

[1] All ac, Hz, and duty cycle are specified from 1 % to 100 % of range. Inputs below 1 % of range are not specified.
tt[2] Typical burden voltage: DC/AC Current u00b5A: 100 u00b5V / u00b5A; DC/AC Current mA: 2 mV/mA; DC/AC Current A: 0.03 V/A
tt[3]Typically, open circuit test voltage is 2.0 V and short circuit current is <0.6 mA
tt[4]Use Type K thermocouple
tt[5] Typical open circuit test voltage is 0.54 V, maximum short circuit current is 1.8 mA
tt[6]Specifications do not include errors due to test lead capacitance and capacitance floor (may be up to 1.5 nF in the 40 nF range).
tt[7] Typical means when the frequency is at 50 Hz or 60 Hz and the duty cycle is between 10 % and 90 %.

Input Characteristics

Function	Overload Protection	Input Impedance (Nominal)	Common Mode Rejection Ratio	Normal Mode Rejection Ratio
AC Volts	1000 V [1]	>10 Mu03a9, <100 pF	>60 dB at 50 Hz or 60 Hz	u2014
AC Millivolts	1000 V [1]	>1 Mu03a9, <100 pF	>80 dB at 50 Hz or 60 Hz	u2014
DC Volts	1000 V [1]	>10 Mu03a9, <100 pF	>100 dB at 50 Hz or 60 Hz	>60 dB at 50 Hz or 60 Hz
DC Millivolts	1000 V [1]	>1 Mu03a9, <100 pF	>80 dB at 50 Hz or 60 Hz	u2014

[1]10^6 V Hz max

General Specifications

Maximum voltage between any Terminal and Earth Ground	600 V
Maximum differential voltage between V and COM terminals	1000V
Display (LCD)	6000 counts, updates 3/sec
Baery Type	2 AA, IEC LR6
Baery life	500 hours minimum
Temperature	Operating 0 u00b0C to 40 u00b0C; ttStorage -30 u00b0C to 60 u00b0C
Relative Humidity	Operating Humidity Non-condensing tt(<10 u00b0C); u226490 % RH at 10 u00b0C to 30 u00b0C; ttu226475 % RH at 30 u00b0C to 40 u00b0C
Operating Humidity, 40 Mu03a9 range	u226480 % RH at 10 u00b0C to 30 u00b0C; u226470 % RH at 30 u00b0C to 40 u00b0C
Altitude	Operating 2000 m; Storage 12000 m
Temperature Coefficient	0.1 X (specified accuracy) /u00b0C (<18 u00b0C or >28 u00b0C)

Fuse protection for current inputs	440 mA, 1000 V, fast-blow, use only Fluke ttspecified parts. 11 A, 1000 V, fast-blow, ttuse only Fluke specified parts
Size (HxWxL)	183 mm x 91 mm x 49.5 mm
Weight	455 g
Ingress Protection	IP40
Safety	IEC 61010-1, IEC61010-2-030: CAT III tt600 V, Pollution Degree 2
Electromagnetic Environment	IEC 61326-1: Portable
Electromagnetic Compatibility (EMC)	Only applicable in Korea

Class A Equipment (Industrial Broadcasting & Communication Equipment)[1]
[1]Equipment meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.

Ordering information

Fluke 15B MAX-01 Digital Multimeter

Includes:

- TL75 Test Leads with 2 Protective Caps
- 2 AA Batteries

Fluke 15B MAX-02 Digital Multimeter

Includes:

- TL31 Extra-Slim Test Leads with 2 Protective Caps
- 2 AA Batteries
- Safety information

Fluke 15B MAX KIT Digital Multimeter

Includes:

- TL75 Test Leads with 2 Protective Caps
- TL31 Extra-Slim Test Leads with 2 Protective Caps
- 2 AA Batteries
- Safety information

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

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