

TECHNICAL DATA

# Fluke 301B





## Key features

- The body weighs only 132g and is 16mm thick, which is light and portable and can be fitted into a pocket
- The slim and thin jaw of only 10mm can easily clamp onto tightly packed wires
- 600A AC range, 0.01A high resolution
- Tests voltage, resistance and continuity
- Tests current frequency and voltage frequency
- Tests capacitance and diodes
- Backlight

## Product overview: Fluke 301B

### Fluke 301B

The Fluke 301B Clamp Meter has a lightweight and compact body, which allows you to carry it around in your pocket. The slim and thin jaw can easily clamp onto tightly packed wires. The Fluke 301B tests current, voltage, resistance, continuity, frequency (voltage and current), capacitance, and diode, etc.. You can handle more testing needs with it.

## Specifications: Fluke 301B

### Specifications

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

Models		301A/301A+		301B		301C		
AC Current (45 to 400 Hz)	Range	40.00 A	400.0 A	60.00 A	600.0 A	60.00 A	600.0 A	1000 A
	Resolution	0.01 A	0.1 A	0.01 A	0.1 A	0.01 A	0.1 A	1 A
	Accuracy	2 % + 10	2 % + 5	2 % + 10	2 % + 5	2 % + 10	2 % + 5	2 % + 5
AC Voltage (45 to 400 Hz)	Range	600.0 V		600.0 V		600.0 V		
	Resolution	0.1 V		0.1 V		0.1V		
	Accuracy	1.5% + 5		1.5% + 5		1.5% + 5		
DC Voltage	Range	600.0 V		600.0 V		600.0 V		
	Resolution	0.1 V		0.1 V		0.1 V		
	Accuracy	1% + 5		1% + 5		1% + 5		
Resistance	Range	600.0 u03a9 tt6.000 ku03a9 tt60.00 ku03a9		600.0 u03a9 tt6.000 ku03a9 tt60.00 ku03a9		600.0 u03a9 tt6.000 ku03a9 tt60.00 ku03a9		
	Accuracy	1% + 5		1% + 5		1% + 5		
Voltage Frequency	Range	9.999 Hz tt99.99 Hz tt999.9 Hz tt9.999 kHz tt99.99 kHz		9.999 Hz tt99.99 Hz tt999.9 Hz tt9.999 kHz tt99.99 kHz		9.999 Hz tt99.99 Hz tt999.9 Hz tt9.999 kHz tt99.99 kHz		
	Accuracy	0.1% + 3		0.1% + 3		0.1% + 3		

Current Frequency	Range	45.0 to 400.0 Hz		45.0 to 400.0 Hz		45.0 to 400.0 Hz	
	Accuracy	0.1% + 3		0.1% + 3		0.1% + 3	
Capacitance	Range	9.999 $\mu$ F	99.99 $\mu$ F 999.9 $\mu$ F	9.999 $\mu$ F	99.99 $\mu$ F 999.9 $\mu$ F	9.999 $\mu$ F	99.99 $\mu$ F 999.9 $\mu$ F
	Accuracy	2 % + 5	5% + 5	2 % + 5	5% + 5	2 % + 5	5% + 5
Diode	Range	3.000 V		3.000 V		3.000 V	
	Accuracy	10%		10%		10%	
T-rms Value	-		-		u25cf		
Continuity	u25cf		u25cf		u25cf		
Hold	u25cf		u25cf		u25cf		
Backlight	-		u25cf		u25cf		
Safety rating	CAT III 300V		CAT III 300V		CAT III 300V		
Weight	132 g		132 g		132 g		
Size	190 mm x 52 mm x 16 mm		190 mm x 52 mm x 16 mm		190 mm x 52 mm x 16 mm		
Jaw Opening	34 mm		34 mm		34 mm		
Clamp Arm Size	10 mm X 10 mm		10 mm X 10 mm		10 mm X 10 mm		
Baery	(2) AAA Baeries		(2) AAA Baeries		(2) AAA Baeries		
Warranty	1 year		1 year		1 year		

### General Specifications

Maximum Voltage between any Terminal and Earth Ground	300 V
Maximum Differential Voltage between V/u03a9 and COM Terminals	600 V
Display (LCD)	6000 counts, updates 3 times per second
Baery Type	2 AAA, IEC LR03
Baery Life	500 hours minimum
Auto Power Off Time	20 minutes
Temperature	Operating: -10 u00b0C to 50 u00b0Cuff1b
	Storage: -30 u00b0C to 60 u00b0C
Relative Humidity	Operating Humidity: Non condensing (<10u00b0C); u2264 90 % RH at 10 u00b0C to 30 u00b0C; u2264 75 % RH at 30 u00b0C to 40 u00b0C; u2264 45 % RH at 40 u00b0C to 50 u00b0C;
Altitude	Operating: 2000 m; Storage: 12000 m
Temperature Coefficient	0.1 x (specified accuracy) /u00b0C (<18 u00b0C or>28 u00b0C)
Dimensions (H x W x L)	190 mm x 52 mm x 16 mm
Weight	132 g
Jaw Opening	34 mm



Ingress Protection Rating	IP30
Safety	IEC 61010--1, IEC61010-2-032 CAT III 300 V, Pollution Degree 2
Electromagnetic Environment	IEC 61326--1: Portable

## Ordering information



### **Fluke 301B**

Models: Fluke 301B Clamp Meter

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Fluke 301B

- Fluke 301B Clamp Meter
  - TL75 test lead
  - (2) AAA batteries
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11/2024

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