

## TECHNICAL DATA

# Fluke 301A



## 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
- 400A AC range, 0.01A high resolution
- Tests voltage, resistance and continuity
- Tests current frequency and voltage frequency
- Tests capacitance and diodes

## Product overview: Fluke 301A

### Fluke 301A

The Fluke 301A 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 301A tests current, voltage, resistance, continuity, frequency (voltage and current), capacitance, and diode, etc.. You can handle more testing needs with it.

## Specifications: Fluke 301A

### Specifications

Accuracy is specified for 1 year after calibration, with operating temperatures from 18 °C to 28 °C and relative humidity

from 0 % to 75 %. Accuracy specifications take the form of:  
 $\pm$ [% 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 $\Omega$ 6.000 k $\Omega$ 60.00 k $\Omega$		600.0 $\Omega$ 6.000 k $\Omega$ 60.00 k $\Omega$		600.0 $\Omega$ 6.000 k $\Omega$ 60.00 k $\Omega$		
	Accuracy	1% + 5		1% + 5		1% + 5		
Voltage Frequency	Range	9.999 Hz 99.99 Hz 999.9 Hz 9.999 kHz 99.99 kHz		9.999 Hz 99.99 Hz 999.9 Hz 9.999 kHz 99.99 kHz		9.999 Hz 99.99 Hz 999.9 Hz 9.999 kHz 99.99 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		-		-		□		
Continuity		□		□		□		
Hold		□		□		□		
Backlight		-		□		□		
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		

Battery	(2) AAA Batteries	(2) AAA Batteries	(2) AAA Batteries
Warranty	1 year	1 year	1 year
<b>General Specifications</b>			
Maximum Voltage between any Terminal and Earth Ground	300 V		
Maximum Differential Voltage between V/Ω and COM Terminals	600 V		
Display (LCD)	6000 counts, updates 3 times per second		
Battery Type	2 AAA, IEC LR03		
Battery Life	500 hours minimum		
Auto Power Off Time	20 minutes		
Temperature	Operating: -10 °C to 50 °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; □ 45 % RH at 40 °C to 50 °C;		
Altitude	Operating: 2000 m; Storage: 12000 m		
Temperature Coefficient	0.1 x (specified accuracy) /°C (<18 °C or >28 °C)		
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 301A

Models: Fluke 301A Clamp Meter

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#### Fluke 301A

- Fluke 301A Clamp Meter
- (2) AAA batteries

#### Fluke 301A+

- Fluke 301A Clamp Meter
- TL75 test lead
- (2) AAA batteries

Note: Fluke 301A is the standard model without test leads.

Fluke 301A+ includes Fluke301A and a TL75 test lead.

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