

TECHNICAL DATA

Fluke 301C





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
- Tests AC voltage and current with the True-rms function.
- 1000A 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 301C

Fluke 301C

The Fluke 301C 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 301C tests current, voltage, resistance, continuity, frequency (voltage and current), capacitance, and diode, etc.. You can handle more test needs with it. With the True-rms function, you can test complex signals more accurately, such as frequency conversion signals.

Specifications: Fluke 301C

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 Ω 6.000 kΩ 60.00 kΩ		600.0 Ω 6.000 kΩ 60.00 kΩ		600.0 Ω 6.000 kΩ 60.00 kΩ		
	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 uF 99.99 uF 999.9 uF	9.999 uF 99.99 uF 999.9 uF	9.999 uF 99.99 uF 999.9 uF
	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
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/Ω 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 °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

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Fluke Corporation

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