

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		

Battery	(2) AAA Batteries	(2) AAA Batteries	(2) AAA Batteries
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		
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); $\leq 90\%$ RH at 10 °C to 30 °C; $\leq 75\%$ RH at 30 °C to 40 °C; $\leq 45\%$ 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 301C

Models: Fluke 301C True-rms Clamp Meter

Fluke 301C

- Fluke 301C Clamp Meter
 - TL75 test lead
 - (2) AAA batteries
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Fluke Corporation
PO Box 9090, Everett, WA 98206 U.S.A.

For more information call:
In the U.S.A. (800) 443-5853
In Europe/M-East/Africa +31 (0)40 267 5100
In Canada (800)-36-FLUKE
From other countries +1 (425) 446-5500

Fluke Electronics (Malaysia) Sdn Bhd
Suite D-3A-4, Block D
SouthGage Commercial Centre, No2
Jalan Dua Off Jln Chan Sow Lin
55200 KL
Malaysia
Email: info.asean@fluke.com
www.fluke.com/my
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