

TECHNICAL DATA

# Fluke 301E Series AC/DC Clamp Meter





## Key features

- The body weighs only 154g and is 16mm thick, which is light and portable and can be put into a pocket
- The slim and thin jaw of only 10mm can easily fit into tightly packed wires
- 1000A AC/DC (E model), 0.01A high resolution
- Tests voltage, resistance and continuity
- Tests current frequency and voltage frequency
- Tests capacitance and diodes
- Backlight

## Product overview: Fluke 301E Series AC/DC Clamp Meter

The Fluke 301E Series AC/DC Clamp Meter is designed with a lightweight and compact body, which allows you to carry it around in your pocket. The slim and thin jaw can easily fit into tightly packed wires. The Fluke 301E test current, voltage, resistance, continuity, frequency (voltage and current), capacitance, and diode, etc.. You can handle multiple test needs with just one tool. With the AC/DC function, it can be applied to more application scenarios requiring DC testing, such as new energy of PV and wind power, new energy vehicles, communications, data centers, etc..

## Specifications: Fluke 301E Series AC/DC Clamp Meter

Models		301D		301E		
AC Current (45 to 400 Hz)	Range	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	1 A
	Accuracy	2% + 10	2% + 5	2% + 10	2% + 5	2% + 5
DC Current	Range	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	1 A
	Accuracy	2% + 10	2% + 5	2% + 10	2% + 5	2% + 5
AC Voltage (45 to 400 Hz)	Range	600.0 V		600.0 V		
	Resolution	0.1 V		0.1 V		
	Accuracy	1.5% + 5		1.5% + 5		
DC Voltage	Range	600.0 V		600.0 V		
	Resolution	0.1 V		0.1 V		
	Accuracy	1% + 5		1% + 5		
Resistance	Range	600.0 u03a9 tt6.000 ku03a9 tt60.00 ku03a9		600.0 u03a9 tt6.000 ku03a9 tt60.00 ku03a9		
	Accuracy	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	
	Accuracy	0.1% + 3		0.1% + 3	
Current Frequency	Range	45.0-400.0 Hz		45.0-400.0 Hz	
	Accuracy	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
	Accuracy	2% + 5	5% + 5	2% + 5	5% + 5
Diode	Range	3.000 V		3.000 V	
	Accuracy	10%		10%	
T-rms Value			-		
Continuity			u25cf		
Hold			u25cf		
Backlight			u25cf		
Safety rating			CAT III 300 V		
Weight			154 g		
Size			190 mm x 52 mm x 16 mm		
Jaw Opening			34 mm		
Clamp Arm Size			10 mm X 10 mm		
Baery			(2) AAA baeries		
Warranty			1 year		

#### General Specifications

<b>Maximum Voltage between any Terminal and Earth Ground</b>	<b>300 V</b>
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 (301D/E 154 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**  
PO Box 9090, Everett, WA 98206 U.S.A.

**For more information call:**  
In the U.S.A. (800) 443-5853  
In Canada (800) 36-FLUKE  
From other countries +1 (425) 446-5500  
[www.fluke.com](http://www.fluke.com)

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11/2024

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