

Technical Data

Fluke 301D Palm-sized AC/DC Clamp Meter



Professional measurements in a compact, pocket-friendly package

The Fluke 301D AC/DC Clamp Meter is a versatile tool that is designed to make your job easier. Its lightweight and compact body make it easy to carry in your pocket, and its slim and thin jaw allows it to fit into cabinets that are tightly packed with wires. With the ability to test current, voltage, resistance, continuity, frequency (voltage and current), capacitance, and diode testing, the 301D can handle multiple test needs in a single tool. And with its AC/DC function, it can be used for a wide range of applications including building wiring, lighting, switches, outlets, motors, and electronics.

Product highlights

- 600 A AC/DC range, 0.01 A high resolution
- Slim, thin 10 mm jaw easily fits into tight spaces
- Tests voltage, resistance and continuity
- Tests current frequency and voltage frequency
- Tests capacitance and diodes

KEY FEATURES

Size (H X W X L)

190 mm x 52 mm x 16 mm

Warranty

1-Year

Fluke 301D Complete test functions

- AC and DC voltage measurement
- AC and DC current measurement
- Resistance measurement
- Continuity measurement
- Capacitance measurement
- Diode measurement
- Frequency measurement
- Display measurement hold



Electrical Specifications			
Function	Range	Resolution	Accuracy
AC Current (45 to 400 Hz)	60.00 A 600.0 A	0.01 A 0.1 A	2 % + 10 2 % + 5
DC Current	60.00 A 600.0 A	0.01 A 0.1 A	2 % + 10 2 % + 5
AC Voltage (45 to 400 Hz)	600.0 V	0.1 V	1.5 % + 5
DC Voltage	600.0 V	0.1 V	1 % + 5
Resistance	600.0 Ω 6.000 kΩ 60.00 kΩ	—	1 % + 5
Voltage Frequency	9.999 Hz 99.99 Hz 999.9 Hz 9.999 kHz 99.99 kHz	—	0.1 % + 3
Current Frequency	45.0 - 400.0 Hz	—	0.1 % + 3
Capacitance	9.999 μF 99.99 μF 999.9 μF	—	2 % + 5 5 % + 5
Diode	3.000 V		10 %
T-rms Value		—	
Continuity		•	
Hold		•	
Backlight		•	
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	
Battery		(2) AAA batteries	
Warranty		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); ≤ 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 (301D 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

Ordering information

FLUKE-301D 301D Compact AC/DC Clamp Meter

Includes

301D Compact AC/DC Clamp Meter, TL75 test leads, two AAA alkaline batteries, quick reference guide, safety information

Accessories

TL75	Fluke TL75 Hard Point™ Test Lead Set
TL175	Fluke TL175 TwistGuard™ Test Leads
TL223	Fluke TL223 SureGrip™ Electrical Test Lead Set
C11XT	Fluke C11XT Protective EVA Hard Tool Case



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