

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 Ω 6.000 kΩ 60.00 kΩ | | 600.0 Ω 6.000 kΩ 60.00 kΩ | | |
| | Accuracy | 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 | |
| | 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 | | □ | | □ | |
| Hold | | □ | | □ | |
| Backlight | | □ | | □ | |
| Safety rating | | CAT III 300 V | | CAT III 300 V | |
| Weight | | 154 g | | 154 g | |
| Size | | 190 mm x 52 mm x 16 mm | | 190 mm x 52 mm x 16 mm | |
| Jaw Opening | | 34 mm | | 34 mm | |
| Clamp Arm Size | | 10 mm X 10 mm | | 10 mm X 10 mm | |
| Baery | | (2) AAA baeries | | (2) AAA baeries | |
| Warranty | | 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 (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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