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:
±([% 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<br>6.000 kΩ<br>60.00 kΩ | | 600.0 Ω<br>6.000 kΩ<br>60.00 kΩ | | 600.0 Ω<br>6.000 kΩ<br>60.00 kΩ | | |
| | Accuracy | 1% + 5 | | 1% + 5 | | 1% + 5 | | |
| Voltage Frequency | Range | 9.999 Hz<br>99.99 Hz<br>999.9 Hz<br>9.999 kHz<br>99.99 kHz | | 9.999 Hz<br>99.99 Hz<br>999.9 Hz<br>9.999 kHz<br>99.99 kHz | | 9.999 Hz<br>99.99 Hz<br>999.9 Hz<br>9.999 kHz<br>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<br>999.9 uF | 9.999 uF | 99.99 uF<br>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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