

Fluke Compact Digital Multimeters


Fluke 117


Every Fluke 110 Series meter comes

with a protective holster, TL75 test leads, 9V battery (installed) and manual.

ORDERING INFO

| | |
|-----------|--------------------------------|
| Fluke-114 | Electrical Multimeter |
| Fluke-115 | Multimeter |
| Fluke-116 | HVAC Multimeter w/ temp. probe |
| Fluke-117 | Electrician's Multimeter |

RECOMMENDED ACCESSORIES

| | |
|-------|-------------------------------|
| TPAK | Meter hanging kit with magnet |
| AC220 | Alligator clips |
| C50 | Carrying case |

These little meters pack more features than some DMMs twice their size:

- True-rms ac voltage and current measurement for accurate readings on all waveforms
- 6000-count display provides improved resolution
- Min/Max/Average feature captures signal fluctuations
- Frequency, capacitance and diode test capabilities (except 114)
- White LED backlight for excellent visibility
- Fast continuity test detects intermittent connections
- IEC CAT III 600V safety rating
- Auto-Volt automatic ac/dc voltage selection

SPECIFICATIONS

| Function | Range & resolution | Best accuracy |
|-------------------------------------------|-----------------------------------------------------------|---------------------|
| VDC | 600.0 mV, 6.000 V, 60.00 V, 600.0 V | ±0.5 % of rdg + 2 d |
| VAC ¹ | 600.0 mV, 6.000 V, 60.00 V, 600.0 V | ±1.0 % of rdg + 3 d |
| ADC (Models 115 & 117 only) | 6.000 A, 10.00 A ² | ±1.0 % of rdg + 3 d |
| AAC (Models 115 & 117 only) | 6.000 A, 10.00 A ² | ±1.5 % of rdg + 3 d |
| Resistance | 600.0 Ω, 6.000 kΩ, 60.00 kΩ, 600.0 kΩ, 6.000 MΩ, 40.00 MΩ | ±0.9 % of rdg + 1 d |
| Capacitance (except Model 114) | 1000 nF, 10.00 μF, 100.0 μF, 9999 μF | ±1.9 % of rdg + 2 d |
| Frequency ³ (except Model 114) | 99.99 Hz, 999.9 Hz, 9.999 Hz, 50.00 kHz | ±0.1 % of rdg + 2 d |

¹ Specified from 1% of range to 100% of range; CF < 3 up to 4000 counts, 1.5 at full scale.

² 10 A continuous, 20 A for up to 30 seconds, 45-500 Hz.

³ Frequency is ac coupled 5 Hz to 50 kHz for ac volts. Frequency is dc coupled 445 Hz to 5 kHz for ac current.

AC volts is ac-coupled. Auto-V, LoZ and ac mV are dc-coupled.

Battery life: 400 hours typical for alkaline.

33 segment Bargraph display updates 32x/sec.

Additional Model 116 features:

- °F/°C temperature function for HVAC troubleshooting
- 600μA ac & dc ranges for testing flame sensors

Fluke Digital Multimeters


Fluke 179

The 170 series replaces the popular 70 Series. The 175, 177 and 179 are designed tough to withstand the harshest work environments. Accuracy rivals most bench meters.

- Lifetime warranty
- 6000 count display
- 0.09% basic dc accuracy (177 & 179)
- True-rms ac voltage and current measurement
- Min/Max/Average records irregular activity
- Auto and Manual hold
- Frequency, capacitance and resistance capabilities

Every Fluke 170 Series meter comes with TL75 test leads, 9V battery (installed) and manual. The Fluke 179 also includes an 80BK Temperature Probe.

- The 179 measures temperature in °C and °F
- 177 and 179 have a backlight to illuminate the screen in dark workspaces
- IEC 1010 CAT IV 600V, CAT III 1000V safety ratings
- Drop protected to 1 meter
- Overmolded case features integrated probe holders
- Compatible with ToolPak™ meter hanging kit

SPECIFICATIONS

| Function | Range & Resolution | Best accuracy |
|-------------------------|-----------------------------------------------------------|--------------------------------------|
| VDC | 600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000V | ±0.09 % (177 & 179) ±0.15 % (175) |
| VAC ¹ | 600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000V | ±1.0 % of reading |
| ADC | 60.00 mA, 400.0 mA, 6.000 A, 10.00 A ² | ±1.0 % of reading |
| AAC | 60.00 mA, 400.0 mA, 6.000 A, 10.00 A ² | ±1.5 % of reading |
| Resistance | 600.0 Ω, 6.000 kΩ, 60.00 kΩ, 600.0 kΩ, 6.000 MΩ, 50.00 MΩ | ±0.9 % of reading |
| Capacitance | 1000 nF, 10.00 μF, 100.0 μF, 9999 μF | ±1.2 % of reading |
| Frequency ³ | 99.99 Hz, 999.9 Hz, 9.999 Hz, 99.99 kHz | ±0.1 % of reading |
| Temperature (Model 179) | -40 °C to +400 °C, -40 °F to +752 °F | 1.0% of reading |

¹All AC voltage and AC current ranges are specified from 5% of range to 100% of range.

²10 A continuous, 20 A for up to 30 seconds.

³Voltage Frequency is specified from 2 Hz to 100 kHz. Current Frequency is specified from 2 Hz to 30 kHz.

Battery life: 200 hours typical for alkaline

Size: (H x W x L): 4.3 cm x 9.0 cm x 18.5 cm

Lifetime Warranty

ORDERING INFO

| | |
|-----------|--------------------|
| Fluke-175 | Digital Multimeter |
| Fluke-177 | Digital Multimeter |
| Fluke-179 | Digital Multimeter |

RECOMMENDED ACCESSORIES

| | |
|-------|---------------------------------|
| TPAK | Meter hanging kit with magnet |
| C25 | Soft vinyl carrying case |
| C510 | Top grain leather carrying case |
| i 200 | AC current clamp |
| TL223 | Electrical test lead set |