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**Data Sheet**

August 14, 2026

FLUKE

# Fluke 117 CAL True-RMS Digital Multimeter

The Fluke 117 CAL is a true-RMS digital multimeter designed for electricians and HVAC technicians. It features a large, backlit display, voltage detection, and provides accurate readings for various electrical parameters. This model comes with a calibration certificate.



MODEL

**Fluke 117 CAL**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**117 CAL**

LISTING

<https://aumictechlabs.com/products/117-cal-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

## This unit

The Fluke 117 CAL is a True-RMS digital multimeter purpose-built for electricians and technicians in commercial and industrial environments. It delivers precise measurements across voltage, current, resistance, and frequency with a 6,000-count display and 33-segment bar graph. The instrument includes NIST-traceable calibration certification, VoltAlert™ non-contact voltage detection, AutoVolt automatic AC/DC selection, and LoZ mode to eliminate ghost voltage errors. True-RMS capability ensures accuracy on both linear and non-linear loads - critical for diagnosing modern electrical systems. Technical Specifications Display & Updates 6,000-count digital display, 4 updates/second 33-segment bar graph, 32 updates/second Environmental Operating temperature: -10 °C to +50 °C Storage temperature: -40 °C to +60 °C Safety rating: CAT III 600 V Power 9-volt alkaline battery (NEDA 1604A/IEC 6LR61) 400-hour typical battery life (without backlight) Voltage Measurement AC voltage: 6 V to 600 V; resolution 0.001 V to 0.1 V; accuracy  $\pm (0.5\% + 2 \text{ counts})$  DC voltage: 0.001 V to 600 V; resolution 0.001 V to 0.1 V; accuracy  $\pm (0.5\% + 2 \text{ counts})$  Current Measurement AC/DC current: 6 A to 10 A; resolution 0.001 A to 0.01 A; accuracy  $\pm$

(1.5% + 3 counts) at 6.000 A range 20 A overload protection for 30 seconds Additional Measurements Resistance: 0.1  $\Omega$  to 40 M $\Omega$ ; 0.1  $\Omega$  resolution Capacitance: 1 nF to 9,999  $\mu$ F Frequency: 5 Hz to 100 kHz (AC voltage) Continuity: 250  $\Omega$  beeper off; 500  $\mu$ s detection Diode test Min/Max/Average recording Key Features VoltAlert™ technology for non-contact voltage sensing AutoVolt automatic voltage mode selection LoZ (low impedance) mode suppresses false readings True-RMS measurement for non-linear load analysis NIST-traceable calibration certificate included Typical Applications Electrical troubleshooting, circuit diagnostics, load analysis, equipment maintenance, and field service work in commercial and industrial installations.

## 117CAL Characteristics / Specifications

| PARAMETER                               | VALUE                                             |
|-----------------------------------------|---------------------------------------------------|
| Base Model                              | Fluke 117                                         |
| Maximum Voltage To Earth                | 600 V                                             |
| Safety Rating                           | IEC 61010 CAT III 600 V Pollution Degree 2        |
| Surge Protection                        | 6 kV peak per IEC 61010-1                         |
| Fuse ForAInput                          | 11 A 1000 V FAST                                  |
| Display Counts                          | 6000 digital updates 4 per second                 |
| Operating Temperature                   | minus 10 C to 50 C                                |
| Storage Temperature                     | minus 40 C to 60 C                                |
| Battery Life Typical                    | 400 hours without backlight                       |
| DC Millivolts Accuracy                  | plus or minus (0.5 percent plus 2)                |
| DC Volts Accuracy                       | plus or minus (0.5 percent plus 2)                |
| AC Volts True RMS Accuracy 45 To 500 Hz | plus or minus (1.0 percent plus 3)                |
| Resistance Maximum                      | 40.00 MOhm                                        |
| Diode Test Range                        | 2.000 V                                           |
| Capacitance Maximum                     | 9999 uF                                           |
| AC Current Maximum                      | 10.00 A                                           |
| DC Current Maximum                      | 10.00 A                                           |
| Current Overload                        | 20 A for 30 seconds maximum                       |
| Frequency Maximum                       | 50.00 kHz                                         |
| Frequency Accuracy                      | plus or minus (0.1 percent plus 2)                |
| Alias Of                                | fluke-117                                         |
| Series Family                           | Fluke 110 series                                  |
| Specification Ambient Class             | 18 C to 28 C one year unless OEM states otherwise |
| Calibration Interval Class              | 1 year class                                      |

# General Specifications & Supplementary Characteristics

| PARAMETER                               | VALUE                                                                                                                                                                                         |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage temperature                     | minus 40 C to 60 C                                                                                                                                                                            |
| Operating temperature                   | minus 10 C to 50 C                                                                                                                                                                            |
| Operating Temperature                   | minus 10 C to 50 C                                                                                                                                                                            |
| Battery Life Typical                    | 400 hours without backlight                                                                                                                                                                   |
| DC Millivolts Accuracy                  | plus or minus (0.5 percent plus 2)                                                                                                                                                            |
| DC Volts Accuracy                       | plus or minus (0.5 percent plus 2)                                                                                                                                                            |
| AC Volts True RMS Accuracy 45 To 500 Hz | plus or minus (1.0 percent plus 3)                                                                                                                                                            |
| Resistance Maximum                      | 40.00 MOhm                                                                                                                                                                                    |
| Diode Test Range                        | 2.000 V                                                                                                                                                                                       |
| Capacitance Maximum                     | 9999 uF                                                                                                                                                                                       |
| AC Current Maximum                      | 10.00 A                                                                                                                                                                                       |
| DC Current Maximum                      | 10.00 A                                                                                                                                                                                       |
| Current Overload                        | 20 A for 30 seconds maximum                                                                                                                                                                   |
| Frequency Maximum                       | 50.00 kHz                                                                                                                                                                                     |
| Frequency Accuracy                      | plus or minus (0.1 percent plus 2)                                                                                                                                                            |
| Alias Of                                | fluke-117                                                                                                                                                                                     |
| Series Family                           | Fluke 110 series                                                                                                                                                                              |
| Specification Ambient Class             | 18 C to 28 C one year unless OEM states otherwise                                                                                                                                             |
| Calibration Interval Class              | 1 year class Notes Alias of fluke-117. Shared numeric table from Fluke 117 official technical data for CAL documentation workflows; confirm calibration sticker and option codes on the unit. |

# Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

specifications include CAT III 600 V, VoltAlert, AutoVolt/LoZ, AC/DC to 600 V, current to 10 A, resistance to 40 MOhm, and capacitance to 9999 uF.

Applications

Calibration documentation for commercial electrician DMMS, LoZ and AutoVolt verification workflows, and service records where the unit label includes a CAL documentation suffix.

Key Features

VoltAlert non-contact voltage detection

AutoVolt automatic AC/DC voltage selection

LoZ ghost voltage rejection

True-RMS AC measurements

Min Max Average recording

Technical Specifications

## Technical Specifications

| PARAMETER                | VALUE                                      |
|--------------------------|--------------------------------------------|
| Base Model               | Fluke 117                                  |
| Maximum Voltage To Earth | 600 V                                      |
| Safety Rating            | IEC 61010 CAT III 600 V Pollution Degree 2 |
| Surge Protection         | 6 kV peak per IEC 61010-1                  |
| Fuse For A Input         | 11 A 1000 V FAST                           |
| Display Counts           | 6000 digital updates 4 per second          |
| Operating Temperature    | minus 10 C to 50 C                         |
| Storage Temperature      | minus 40 C to 60 C                         |
| Battery Life Typical     | 400 hours without backlight                |
| DC Millivolts Accuracy   | plus or minus (0.5 percent plus 2)         |
| DC Volts Accuracy        | plus or minus (0.5 percent plus 2)         |

AC Volts True RMS Accuracy 45 To 500 Hz: plus or minus (1.0 percent plus 3)

## Specifications

| PARAMETER           | VALUE      |
|---------------------|------------|
| Resistance Maximum  | 40.00 MOhm |
| Diode Test Range    | 2.000 V    |
| Capacitance Maximum | 9999 uF    |
| AC Current Maximum  | 10.00 A    |
| DC Current Maximum  | 10.00 A    |

| PARAMETER                   | VALUE                                             |
|-----------------------------|---------------------------------------------------|
| Current Overload            | 20 A for 30 seconds maximum                       |
| Frequency Maximum           | 50.00 kHz                                         |
| Frequency Accuracy          | plus or minus (0.1 percent plus 2)                |
| Alias Of                    | fluke-117                                         |
| Series Family               | Fluke 110 series                                  |
| Specification Ambient Class | 18 C to 28 C one year unless OEM states otherwise |
| Calibration Interval Class  | 1 year class                                      |

Notes  
Alias of fluke-117. Shared numeric table from Fluke 117 official technical data for CAL documentation workflows; confirm calibration sticker and option codes on the unit.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.