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Data Sheet

August 14, 2026

FLUKE

Fluke 117 Digital Multimeter Electrician's Kit

Aumictech offers NIST-traceable calibration and repair for the Fluke 117/EFSP / R5110. Calibration covers DC voltage accuracy at all ranges, AC voltage (True RMS) accuracy at 50 Hz, 1 kHz, and 10 kHz, DC current accuracy, resistance accuracy at all decade ranges, frequency accuracy, and diode test voltage. Fluke 87V and 289 also include capacitance and temperature calibration.. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt. Common Fluke 117/EFSP / R5110 faults: blown input fuse, worn input jacks, display segment failure, relay contact wear on bench DMMs. Common faults include worn input jacks (banana socket contact wear on the mA and COM terminals), blown input fuses (especially the 440 mA HRC fuse), and display segment failures. Keithley 2000/2001/2002 bench DMMs commonly develop relay contact wear affecting resistance

**MODEL****Fluke 117/EFSP / R5110****CALIBRATION****Available on request****CONDITION****Used****STATUS****In stock****RFQ / SKU****117/EFSP / R5110****LISTING**<https://aumictechlabs.com/products/117-efsp-r5110-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 117/EFSP Digital Multimeter Kit works with electricians and technicians who need a reliable and accurate tool for troubleshooting electrical systems. The Fluke 117 True-RMS digital multimeter measures voltage, current, resistance, continuity, and frequency. The included R5110

non-contact AC voltage detector quickly identifies live wires without making contact, enhancing safety. This kit is ideal for both residential and commercial applications.

117EFSR5110 Characteristics / Specifications

PARAMETER	VALUE
Maximum Voltage To Earth	600 V
Safety Category	CAT III 600 V Pollution Degree 2
Surge Protection	6 kV peak per IEC 61010-1
Display Counts	6000 updates 4/sec
Bar Graph	33 segments updates 32/sec
DC Millivolts Range	600.0 mV
DC Millivolts Accuracy	0.5 percent plus 2
DC Volts Ranges	6.000 V 60.00 V 600.0 V
DC Volts Accuracy	0.5 percent plus 2
Auto Volts Accuracy 45 Hz to 500 Hz	2.0 percent plus 3
AC Millivolts Accuracy 45 Hz to 500 Hz	1.0 percent plus 3
AC Volts Accuracy 45 Hz to 500 Hz	1.0 percent plus 3
AC Volts Accuracy 500 Hz to 1 kHz	2.0 percent plus 3
Resistance Ranges	600.0 ohm to 40.00 Mohm
Resistance Accuracy Low Ranges	0.9 percent plus 1
Resistance Accuracy 40 Mohm	1.5 percent plus 2
Capacitance Ranges	1000 nF to 9999 uF
Capacitance Accuracy	1.9 percent plus 2
AC Current Ranges	6.000 A 10.00 A
AC Current Accuracy 45 Hz to 500 Hz	1.5 percent plus 3
DC Current Ranges	6.000 A 10.00 A
DC Current Accuracy	1.0 percent plus 3
Current Overload	20 A for 30 seconds max
Frequency Ranges	99.99 Hz to 50.00 kHz
Frequency Accuracy	0.1 percent plus 2

PARAMETER	VALUE
Continuity Beeper	on less than 20 ohm off greater than 250 ohm
Diode Test	2.000 V
Operating Temperature	minus 10 C to plus 50 C
Battery	9 V alkaline
Battery Life Typical	400 hours without backlight
Fuse ForAIinput	11 A 1000 V FAST

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	minus 10 C to plus 50 C
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Battery Life Typical	400 hours without backlight
Fuse ForAInput	11 A 1000 V FAST Notes From Fluke 117 Electrician Multimeter with Non-Contact Voltage technical data 2634028. Accuracies are plus or minus (percent of reading plus counts) for one year at 18 C to 28 C with 0 to 90 percent RH.

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.

technical data lists 6000-count display, CAT III 600 V rating, DC volts accuracy 0.5 percent plus 2, true-RMS AC volts 1.0 percent plus 3 from 45 Hz to 500 Hz, and current to 10 A.

Applications
Commercial building hospital and school electrical work, branch-circuit troubleshooting with LoZ ghost-voltage rejection, non-contact voltage presence checks, and everyday voltage current resistance capacitance and frequency measurements.

Key Features
VoltAlert non-contact voltage detection
AutoVolt AC/DC selection and LoZ mode
True-RMS AC for non-linear loads
Min/Max/Average recording
Large white LED backlight

Technical Specifications

Technical Specifications

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Auto Volts Accuracy 45 Hz to 500 Hz: 2.0 percent plus 3
AC Millivolts Accuracy 45 Hz to 500 Hz: 1.0 percent plus 3
AC Volts Accuracy 45 Hz to 500 Hz: 1.0 percent plus 3
AC Volts Accuracy 500 Hz to 1 kHz: 2.0 percent plus 3

Specifications

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Specifications

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Notes
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Available from Aumictech

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

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

Aumictech

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