

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

FLUKE

Fluke 114-NIST Electrical True RMS Multimeter

The Fluke 114-NIST Electrical True RMS Multimeter is a versatile tool for electrical troubleshooting. It measures AC/DC voltage and current, resistance, continuity, and frequency. With True RMS technology, it ensures accurate readings on non-linear signals. The NIST-traceable calibration provides confidence in measurement accuracy, making it suitable for various electrical testing applications.



MODEL

Fluke 114-NIST

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

114-NIST

LISTING

<https://aumictechlabs.com/products/114-nist-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 114-NIST is a compact digital multimeter built for electrical troubleshooting and preventive maintenance in commercial and industrial settings. True RMS measurement capabilities deliver accurate AC voltage and current readings across non-sinusoidal waveforms. NIST-traceable calibration certification ensures traceability to the National Institute of Standards and Technology, critical for regulated test environments and documented measurement integrity. Technical Specifications Display & Measurement Resolution 6000-count digital display AC voltage: 600.0 V range; $\pm(1.0\% + 3)$ accuracy; 0.1 V to 0.1 mV resolution DC voltage: 600.0 V range; $\pm(0.5\% + 3)$ accuracy; 0.1 V to 0.1 mV resolution AC current: 10.00 A range; $\pm(1.0\% + 3)$ accuracy; 0.01 A to 1 mA resolution DC current: 10.00 A range; $\pm(1.0\% + 3)$ accuracy; 0.01 A to 1 mA resolution Resistance: 60.00 M Ω range; $\pm(1.0\% + 3)$ accuracy; 0.01 Ω to 1 k Ω resolution

Capacitance: 100.0 nF to 1000 μ F range; $\pm(2.0\% + 5)$ accuracy; 0.1 nF to 1 μ F resolution
Frequency: 50.00 Hz to 50.00 kHz range; $\pm(0.5\% + 1)$ accuracy; 0.01 Hz to 0.01 kHz resolution
Key Features True RMS measurement for AC voltage and current Continuity testing with audible beeper Diode test function Data hold, min/max/average recording Auto power-off 9V alkaline battery (NEDA 1604A or IEC 6LR61); ~400 hours runtime Dimensions: 144 mm (H) $\times$ 70.5 mm (W) $\times$ 28 mm (D); ~200 g without holster Durable plastic housing with drop-test design IP-rated dust and water ingress protection
Typical Applications Electricians, field technicians, and service engineers working with AC/DC circuits, motor circuits, and industrial control systems where True RMS accuracy and calibration traceability are required.
Compatibility & Integration Standard 4 mm banana jack inputs; compatible with conventional multimeter test leads and probes.

Features & description

From manufacturer datasheet

Features

• NIST-traceable calibration certificate with data and uncertainties • AutoVolt automatic AC/DC voltage selection • LoZ low input impedance to prevent ghost-voltage readings • True-rms AC voltage measurement • Continuity beeper and resistance to 40 M Ω • Min/Max/Average recording • Large white LED backlight • Compact holstered form factor with TL75 leads included

Applications

• Electrical go/no-go troubleshooting • Ghost-voltage rejection on energized circuits with LoZ • AC/DC voltage checks on CAT III 600 V circuits • Continuity and resistance verification • Recording signal fluctuations with Min/Max/Average • Jobs requiring NIST-traceable calibration documentation

114NIST Characteristics / Specifications

PARAMETER	VALUE
Model	Fluke 114-NIST
Manufacturer	Fluke
Instrument Type	True RMS Electrical Multimeter with NIST Calibration
Alias	Fluke 114 EFSP NIST; 114-NIST
Max voltage terminal to earth	600 V
Surge protection	6 kV peak per IEC 61010-1 CAT III 600 V Pollution Degree 2
Safety rating	CAT III 600 V
Display counts	6000
Display update rate	4 per second
Bar graph segments	33
Bar graph update rate	32 per second
Operating temperature	-10 C to +50 C
Storage temperature	-40 C to +60 C
Battery type	9 V alkaline NEDA 1604A / IEC 6LR61
Battery life	400 hours typical without backlight
Accuracy ambient	18 C to 28 C, RH 0% to 90%, 1 year after calibration
DC millivolts range	600.0 mV / 0.1 mV
DC millivolts accuracy	0.5% + 2
DC volts ranges	6.000 V / 60.00 V / 600.0 V
DC volts accuracy	0.5% + 2
Auto volts range	600.0 V / 0.1 V
Auto volts accuracy DC 45 Hz to 500 Hz	2.0% + 3
Auto volts accuracy 500 Hz to 1 kHz	4.0% + 3
AC millivolts True rms range	600.0 mV / 0.1 mV
AC millivolts accuracy 45 Hz to 500 Hz	1.0% + 3

PARAMETER	VALUE
AC millivolts accuracy 500 Hz to 1 kHz	2.0% + 3
AC volts True rms ranges	6.000 V / 60.00 V / 600.0 V
AC volts accuracy 45 Hz to 500 Hz	1.0% + 3
AC volts accuracy 500 Hz to 1 kHz	2.0% + 3
Continuity range	600 Ω / 1 Ω
Continuity beeper	on less than 20 Ω ; off greater than 250 Ω
Continuity detect pulse	opens or shorts of 500 μ s or longer
Ohms ranges	600.0 Ω to 40.00 M Ω
Size	167 × 84 × 46 mm
Weight	550 g
Warranty	3 years
Calibration documentation	NIST-traceable certificate with data and uncertainties
Included accessories class	TL75 leads; holster; manual; 9 V battery Notes Specs from Fluke 114 Electrical Multimeter datasheet and 114-NIST reseller listings. Electrical performance matches standard Fluke 114; NIST suffix denotes calibration documentation. Confirm certificate date and uncertainties on the shipped unit.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 C to +60 C
Operating temperature	10 C to +50 C
Operating Temperature	10 C to +50 C
Battery type	9 V alkaline NEDA 1604A / IEC 6LR61
Battery life	400 hours typical without backlight
Accuracy ambient	18 C to 28 C, RH 0% to 90%, 1 year after calibration
DC millivolts range	600.0 mV / 0.1 mV
DC millivolts accuracy	0.5% + 2
DC volts ranges	6.000 V / 60.00 V / 600.0 V
DC volts accuracy	0.5% + 2
Auto volts range	600.0 V / 0.1 V
Auto volts accuracy DC 45 Hz to 500 Hz	2.0% + 3
Auto volts accuracy 500 Hz to 1 kHz	4.0% + 3
AC millivolts True rms range	600.0 mV / 0.1 mV
AC millivolts accuracy 45 Hz to 500 Hz	1.0% + 3
AC millivolts accuracy 500 Hz to 1 kHz	2.0% + 3
AC volts True rms ranges	6.000 V / 60.00 V / 600.0 V
AC volts accuracy 45 Hz to 500 Hz	1.0% + 3
AC volts accuracy 500 Hz to 1 kHz	2.0% + 3
Continuity range	600 Ω / 1 Ω
Continuity beeper	on less than 20 Ω; off greater than 250 Ω
Continuity detect pulse	opens or shorts of 500 μs or longer
Ohms ranges	600.0 Ω to 40.00 MΩ
Size	167 × 84 × 46 mm
Weight	550 g

PARAMETER	VALUE
Warranty	3 years
Calibration documentation	NIST-traceable certificate with data and uncertainties
Included accessories class	TL75 leads; holster; manual; 9 V battery Notes Specs from Fluke 114 Electrical Multimeter datasheet and 114-NIST reseller listings. Electrical performance matches standard Fluke 114; NIST suffix denotes calibration documentation. Confirm certificate date and uncertainties on the shipped 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	
Specifications	
PARAMETER	VALUE
Model	Fluke 114-NIST
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Instrument Type	True RMS Electrical Multimeter with NIST Calibration
Alias	Fluke 114 EFSP NIST; 114-NIST
Max voltage terminal to earth	600 V
Surge protection	6 kV peak per IEC 61010-1 CAT III 600 V Pollution Degree 2
Safety rating	CAT III 600 V
Display counts	6000
Display update rate	4 per second
Bar graph segments	33
Bar graph update rate	32 per second
Operating temperature	-10 C to +50 C
Storage temperature	-40 C to +60 C
Battery type	9 V alkaline NEDA 1604A / IEC 6LR61
Battery life	400 hours typical without backlight
Accuracy ambient	18 C to 28 C, RH 0% to 90%, 1 year after calibration
DC millivolts range	600.0 mV / 0.1 mV
DC millivolts accuracy	0.5% + 2
DC volts ranges	6.000 V / 60.00 V / 600.0 V
DC volts accuracy	0.5% + 2
Auto volts range	600.0 V / 0.1 V
Auto volts accuracy DC 45 Hz to 500 Hz: 2.0% + 3	
Auto volts accuracy 500 Hz to 1 kHz: 4.0% + 3	
AC millivolts True rms range: 600.0 mV / 0.1 mV	
AC millivolts accuracy 45 Hz to 500 Hz: 1.0% + 3	
AC millivolts accuracy 500 Hz to 1 kHz: 2.0% + 3	
AC volts True rms ranges: 6.000 V / 60.00 V / 600.0 V	
AC volts accuracy 45 Hz to 500 Hz: 1.0% + 3	
AC volts accuracy 500 Hz to 1 kHz: 2.0% + 3	

Specifications

PARAMETER	VALUE
Continuity range	600 Ω / 1 Ω
Continuity beeper	on less than 20 Ω ; off greater than 250 Ω
Continuity detect pulse	opens or shorts of 500 μ s or longer
Ohms ranges	600.0 Ω to 40.00 M Ω

Ohms accuracy to 6 M Ω : 0.9% + 1

Ohms accuracy 40 M Ω : 1.5% + 2 class (datasheet row)

Size: 167 x 84 x 46 mm

Weight: 550 g

Warranty: 3 years

Calibration documentation: NIST-traceable certificate with data and uncertainties

Included accessories class: TL75 leads; holster; manual; 9 V battery

Notes

Specs from Fluke 114 Electrical Multimeter datasheet and 114-NIST reseller listings. Electrical performance matches standard Fluke 114; NIST suffix denotes calibration documentation. Confirm certificate date and uncertainties on the shipped unit.

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.