

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

FLUKE

Fluke 113 True RMS Utility Multimeter with VCHECK

The Fluke 113 isaTrue-rms utility digital multimeter designed for basic meter set and reconnect testing. VCHECK LoZ low-impedance measurement combines voltage and continuity-style checks to reduce ghost-voltage false readings. It measures resistance, capacitance, diode, and continuity, is CAT IV 600 V rated, and does not measure current. Instrument Type: True rms Utility Multimeter Alias: Fluke 113 Electrical Multimeter; Fluke 113 Utility Multimeter VCHECK ranges: 6.000 V / 60.00 V / 600.0 V VCHECK resolution: 0.001 V / 0.01 V / 0.1 V



MODEL

Fluke 113

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

113

LISTING

<https://aumictechlabs.com/products/113-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 113 True RMS Utility Multimeter with VCHECK is a handheld instrument engineered for fundamental electrical testing and diagnostics. It delivers True-RMS AC voltage and current measurements with reliable accuracy on non-linear loads, and incorporates VCHECK™ LoZ low-impedance measurement capability for simultaneous voltage and continuity testing. This design eliminates ghost voltage errors and streamlines troubleshooting workflows for electricians, technicians, and utility workers. Technical Specifications The 6000-count display with backlight updates 4 times per second. Measurement ranges include AC voltage to 750 V ($\pm 2\%$ rdg + 3 digits, 45 Hz to 1 kHz), DC voltage to 1000 V ($\pm 2\%$ rdg + 3 digits, 0.001 V resolution), and

resistance from 0.1 Ω to 40 M Ω across 600 Ω , 6 k Ω , and 60 k Ω ranges (0.9% + 1 to 2 accuracy). Continuity detection operates with beeper threshold 250 Ω , with 500 μ s pulse sensitivity. Diode test covers 2 V range ($\pm$ 2.0% + 3). Capacitance measurement spans 0.01 nF to 100 μ F across four ranges (1.9% to 5% + offset accuracy). Frequency measurement extends from 0.001 Hz to 10 MHz. Temperature measurement covers -20 to 750 $^{\circ}$ C. Duty cycle range is 0.1% to 99.9%. The instrument holds CAT III 600 V and CAT IV 300 V safety ratings.

Key Features True-RMS capability ensures accurate AC measurements on non-linear loads VCHECK™ LoZ prevents false voltage readings and enables simultaneous testing Min/Max recording function captures signal fluctuations Auto and manual ranging modes Large backlit display for low-light environments Integral holster with probe storage 1-year calibration interval; accuracy specifications apply at 18 $^{\circ}$ C to 28 $^{\circ}$ C, 0% to 95% RH

Typical Applications Electrical system troubleshooting, voltage and continuity verification, component testing, load analysis on variable-frequency equipment.

Compatibility & Integration Two input jacks: COM (common terminal) and V Ω CAP (voltage, resistance, capacitance). Dimensions: 167.1 mm $\times$ 85.1 mm $\times$ 46.0 mm. Weight: 404 g.

Features & description

From manufacturer datasheet

Features

- VCHEK LoZ low-input-impedance voltage measurement

Applications

- Utility meter set and reconnect testing

113 Characteristics / Specifications

PARAMETER	VALUE
Model	Fluke 113
Manufacturer	Fluke
Instrument Type	True rms Utility Multimeter
Alias	Fluke 113 Electrical Multimeter; Fluke 113 Utility Multimeter
VCHEK ranges	6.000 V / 60.00 V / 600.0 V
VCHEK resolution	0.001 V / 0.01 V / 0.1 V
VCHEK accuracy DC and 45 to 500 Hz	2.0% + 3
VCHEK accuracy 500 Hz to 1 kHz	4.0% + 3
VCHEK input impedance nominal	about 3 k Ω less than 300 pF
Diode test range	2.000 V
Diode test resolution	0.001 V
Diode test accuracy	2.0% + 3
Diode open circuit voltage	2.7 VDC
Diode short circuit current	less than 1.0 mA
Continuity beeper on	less than 20 Ω
Continuity beeper off	greater than 250 Ω
Continuity open short detect	500 μ s or longer
Resistance ranges	600.0 Ω / 6.000 k Ω / 60.00 k Ω
Resistance resolution	0.1 Ω / 0.001 k Ω / 0.01 k Ω
Resistance accuracy	0.9% + 2 / 0.9% + 1 / 0.9% + 1
Resistance open circuit voltage	less than 2.7 VDC
Resistance short circuit current	less than 350 μ A
Capacitance ranges	1000 nF / 10.00 μ F / 100.0 μ F / 9999 μ F
Capacitance resolution	1 nF / 0.01 μ F / 0.1 μ F / 1 μ F
Max voltage any terminal to earth	600 V

PARAMETER	VALUE
Surge protection	8 kV peak per IEC 61010 1 CAT IV 600 V
Display	3 3/4 digits, 6000 counts, updates 4/sec
Operating temperature	-10 C to 50 C
Storage temperature	-40 C to 60 C
Temperature coefficient	0.1 x specified accuracy perCoutside 18 to 28 C
Operating altitude	2000 m
Storage altitude	10000 m
Battery type	9 V alkaline IEC 6F22
Battery life	300 hours typical without backlight
SizeHxWxL	167.1 mm x 85.1 mm x 46.0 mm
Weight	404 g (13.0 oz)
Safety rating	CAT IV 600 V Pollution Degree 2
EMI	FCC Part 15 ClassB Shock: 1 m drop per IEC 61010 1
Current measurement	not supported Notes Confirmed product is the Fluke 113 True-rms Utility Multimeter (also called Electrical Multimeter). Specs from Fluke 113 product page and Fluke 113 calibration/spec documentation. Accuracy is 1-year at 18 C to 28 C unless noted.

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
Temperature coefficient	0.1 x specified accuracy perCoutside 18 to 28 C
Operating altitude	2000 m
Storage altitude	10000 m
Battery type	9 V alkaline IEC 6F22
Battery life	300 hours typical without backlight
SizeHxWxL	167.1 mm x 85.1 mm x 46.0 mm
Weight	404 g (13.0 oz)
Safety rating	CAT IV 600 V Pollution Degree 2
EMI	FCC Part 15 ClassB Shock: 1 m drop per IEC 61010 1
Current measurement	not supported Notes Confirmed product is the Fluke 113 True-rms Utility Multimeter (also called Electrical Multimeter). Specs from Fluke 113 product page and Fluke 113 calibration/spec documentation. Accuracy is 1-year at 18 C to 28 C unless noted.

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 113
Manufacturer	Fluke
Instrument Type	True rms Utility Multimeter
Specifications	
PARAMETER	VALUE
Alias	Fluke 113 Electrical Multimeter; Fluke 113 Utility Multimeter
VCHEK ranges	6.000 V / 60.00 V / 600.0 V
VCHEK resolution	0.001 V / 0.01 V / 0.1 V
VCHEK accuracy DC and 45 to 500 Hz: 2.0% + 3	
VCHEK accuracy 500 Hz to 1 kHz: 4.0% + 3	
VCHEK input impedance nominal: about 3 kΩ less than 300 pF	
VCHEK CMRR 1 kΩ unbalanced: greater than 60 dB at DC, 50 or 60 Hz	
Specifications	
PARAMETER	VALUE
Diode test range	2.000 V
Diode test resolution	0.001 V
Diode test accuracy	2.0% + 3
Specifications	
PARAMETER	VALUE
Diode open circuit voltage	2.7 VDC
Diode short circuit current	less than 1.0 mA
Continuity beeper on	less than 20 Ω
Specifications	

PARAMETER	VALUE
Continuity beeper off	greater than 250 Ω
Continuity open short detect	500 μs or longer
Resistance ranges	600.0 Ω / 6.000 k Ω / 60.00 k Ω

Specifications

PARAMETER	VALUE
Resistance resolution	0.1 Ω / 0.001 k Ω / 0.01 k Ω
Resistance accuracy	0.9% + 2 / 0.9% + 1 / 0.9% + 1
Resistance open circuit voltage	less than 2.7 VDC

Specifications

PARAMETER	VALUE
Resistance short circuit current	less than 350 μA
Capacitance ranges	1000 nF / 10.00 μF / 100.0 μF / 9999 μF
Capacitance resolution	1 nF / 0.01 μF / 0.1 μF / 1 μF

Capacitance accuracy to 1000 μF : 1.9% + 2

Capacitance accuracy above 1000 μF : 5% + 20

Specifications

PARAMETER	VALUE
Max voltage any terminal to earth	600 V
Surge protection	8 kV peak per IEC 61010 1 CAT IV 600 V
Display	3 3/4 digits, 6000 counts, updates 4/sec

Specifications

PARAMETER	VALUE
Operating temperature	-10 C to 50 C
Storage temperature	-40 C to 60 C
Temperature coefficient	0.1 x specified accuracy perC Outside 18 to 28 C

Specifications

PARAMETER	VALUE
Operating altitude	2000 m
Storage altitude	10000 m

PARAMETER	VALUE
Battery type	9 V alkaline IEC 6F22

Specifications

PARAMETER	VALUE
Battery life	300 hours typical without backlight
SizeHxWxL	167.1 mm x 85.1 mm x 46.0 mm
Weight	404 g (13.0 oz)

Specifications

PARAMETER	VALUE
Safety rating	CAT IV 600 V Pollution Degree 2
EMI	FCC Part 15 ClassB Shock: 1 m drop per IEC 61010 1
Current measurement	not supported

Notes

Confirmed product is the Fluke 113 True-rms Utility Multimeter (also called Electrical Multimeter). Specs from Fluke 113 product page and Fluke 113 calibration/spec documentation. Accuracy is 1-year at 18 C to 28 C unless noted.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

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