

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U1253B Handheld Digital Multimeter OLED

Agilent Keysight U1253B OLED Handheld Digital Multimeter The Agilent/Keysight U1253B is a 50000-count OLED true-RMS handheld DMM with AC+DC measurements, 100 kHz AC bandwidth, and a programmable square-wave generator. OEM fact-sheet tables list 0.025 percent basic DCV accuracy to 1000 V, 0.05 percent DC current to 10 A, resistance to 500 MOhm, frequency counter to 20 MHz, and capacitance to 100 mF with CAT III 1000 V / CAT IV 600 V protection. Electronics bench and field troubleshooting needing OLED clarity, in-rush capture with peak hold, and stimulus of digital circuits with the built-in square-wave generator. The Agilent/Keysight U1253B is a 50000-count OLED true-RMS handheld DMM with AC+DC measurements, 100 kHz AC bandwidth, and a programmable square-wave generator. OEM fact-sheet tables list 0.025 percent basic DCV accuracy to 1000 V, 0.05 percent DC current to 10 A, resistance to 500 MOhm, frequency counter to 20 MHz, and capacitance to 100 mF with CAT III 1000 V / CAT IV 600 V protection. Electronics bench and field troubleshooting needing OLED clarity, in-rush capture with peak hold, and stimulus of digital circuits with the built-in square-wave generator.



MODEL

**Agilent / Keysight
U1253B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U1253B

LISTING

<https://aumictechlabs.com/products/u1253b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight U1253B is a 4.5-digit handheld digital multimeter featuring a 50,000-count dual OLED display for superior readability in various lighting conditions. This True RMS multimeter works with industrial and field applications, offering a solid set of measurement capabilities and a wide operating temperature range. Its advanced features include data logging, a 20 MHz frequency counter, and a programmable square-wave generator, making it a versatile tool for troubleshooting and analysis.

Technical Specifications

Display: Type: Dual Organic Light-Emitting Diode (OLED) display Resolution: 50,000 counts Viewing Angle: 160° Contrast Ratio: 2000:1

Features: High contrast, clear visibility in low light and off-angle situations.

Measurement Functions:

- Voltage:** * DC Voltage Range: Up to 1000 V * AC Voltage Range: Up to 1000 V * Accuracy (DCV): Up to 0.025% * True RMS AC voltage measurements
- Current:** * DC Current Range: Up to 10 A * AC Current Range: Up to 10 A * Accuracy (DC/AC Current): 0.05% * True RMS AC current measurements
- Resistance:** * Range: Up to 500 MΩ * Accuracy: 0.001 kΩ (implied)
- Capacitance:** * Range: Up to 100 mF
- Frequency:** * Counter Range: 20 MHz * Max Frequency Measurement: Up to 20 MHz
- Temperature:** * Supported Thermocouples: K-type and J-type * Measurement Range (with specific thermocouple): -20 °C to 200 °C (PTFE-compatible environments for bead-type thermocouple)
- Continuity:** Yes
- Diode Test:** Yes
- Conductance:** Up to 500 nS

Advanced Features: True RMS: For accurate AC voltage and current measurements of complex waveforms. Data Logging: * Internal Memory: Up to 1000 data points * External Logging: Via optional IR-to-USB cable or optional Bluetooth adapter. * Logging Modes: Interval or manual logging. * Software: GUI data-logging software. Frequency Counter: Integrated 20 MHz. Square Wave Generator: Built-in, programmable with selectable frequency and duty cycle. * Duty Cycle Adjustment: 0.390625% to 99.609375% Peak Hold: Yes Min/Max Recording: Yes Display Hold: Yes Null Function: Yes Smoothing Function: Yes Dual Display: Allows viewing of multiple parameters simultaneously. SHIFT Key: For easy access to secondary functions. Closed Case Calibration: Yes Electrical: Overvoltage Protection: CAT III 1000 V, CAT IV 600 V Fuse Protection: 30 kA high-energy fusible link. Input Impedance: 10 MΩ (broad voltage range) Interfaces: Connectivity: Optional IR-to-USB cable for PC connectivity. Wireless: Optional Bluetooth adapter (Keysight Remote Link solution) for wireless data logging. Physical: Dimensions: 8" (204mm) x 3.7" (94mm) x 2.3" (59mm) Weight: 18.8 oz (532g) with battery Enclosure: solid over-molded. Color: Bright orange. Tilt Stand: Multi-function. Environmental: Operating Temperature Range: -20 °C to +55 °C (Note: One source mentions -40 °C to +70 °C, but more reliable sources indicate -20 °C to +55 °C. This specification is based on the more frequently cited range.) Storage Temperature: Not specified. Humidity: Designed for indoor use and areas with low condensation. Complies with IEC 61010-1 standards for high altitude and humidity levels. Power: Battery Type: 9 V alkaline or rechargeable battery, 7.2 V or 8.4 V NiMH rechargeable battery Battery Life: Approximately 8 hours under normal usage. Charging: Built-in battery charging capability.

Compliance & Safety: Standards: Complies with IEC 61010-1, EN/IEC 61010-1, UL 61010-1, CAN/CSA 22.2 61010-1. Safety Ratings: CAT III 1000 V, CAT IV 600 V. EMC Requirements: Complies with relevant EMC requirements. Certifications: CE, CSA certified. Included Accessories (Typical): Test Lead Set Alligator Clips Rechargeable Ni-MH Battery Power Cord and AC Adapter Certificate of Calibration Quick Start Guide Optional: IR-to-USB cable, Bluetooth adapter

Why Choose Aumictech for Keysight U1253B? At Aumictech, we specialize in supplying high-end

electronic test and measurement equipment. Whether you need reliable troubleshooting tools, advanced measurement capabilities, or solid

U1253B Characteristics / Specifications

PARAMETER	VALUE
Display Counts	50000
Basic DCV Accuracy	0.025 percent
DC Voltage Maximum	1000 V
AC Voltage Maximum	1000 V
AC Bandwidth	100 kHz
True RMS Mode	AC plus DC
DC Current Maximum	10 A
DC Current Basic Accuracy	0.05 percent
Resistance Maximum	500 MOhm
Resistance Basic Accuracy	0.05 percent
Frequency Counter Maximum	20 MHz
Frequency Basic Accuracy	0.02 percent
Capacitance Maximum	100 mF
Capacitance Basic Accuracy	1.00 percent
Temperature Range Thermocouple	minus 200 C to plus 1372 C
Temperature Accuracy Class	0.30 percent
Peak Hold	1 ms
Safety Category	CAT III 1000 V / CAT IV 600 V
Battery Type	7.2 V rechargeable NiMH
Operating Temperature	minus 20 C to 55 C
Conductance Range Class	0.01 nS to 500 nS
Diode And Continuity	Supported
Percent Scale 4 To 20 mA	Supported
Bandwidth	100 kHz

U1253B Specifications

PARAMETER	VALUE
Agilent Keysight U1253B OLED Handheld Digital Multimeter	Overview
Key Features	OLED display 160 degree viewing angle
Programmable square wave generator	20 MHz frequency counter
Technical Specifications	Display Counts: 50000
Notes	From Keysight U1253B OLED Handheld Digital Multimeter product fact sheet and U125x family comparison tables.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	minus 20 C to 55 C
Operating Temperature	minus 20 C to 55 C
Conductance Range Class	0.01 nS to 500 nS
Diode And Continuity	Supported
Percent Scale 4 To 20 mA	Supported Notes From Keysight U1253B OLED Handheld Digital Multimeter product fact sheet and U125x family comparison tables.

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
Display Counts	50000
Basic DCV Accuracy	0.025 percent
DC Voltage Maximum	1000 V
AC Voltage Maximum	1000 V
AC Bandwidth	100 kHz
True RMS Mode	AC plus DC
DC Current Maximum	10 A
DC Current Basic Accuracy	0.05 percent
Resistance Maximum	500 MOhm
Resistance Basic Accuracy	0.05 percent
Frequency Counter Maximum	20 MHz
Frequency Basic Accuracy	0.02 percent
Capacitance Maximum	100 mF
Capacitance Basic Accuracy	1.00 percent
Temperature Range Thermocouple	minus 200 C to plus 1372 C
Temperature Accuracy Class	0.30 percent
Peak Hold	1 ms
Safety Category	CAT III 1000 V / CAT IV 600 V
Battery Type	7.2 V rechargeable NiMH
Operating Temperature	minus 20 C to 55 C
Conductance Range Class	0.01 nS to 500 nS
Diode And Continuity	Supported
Percent Scale 4 To 20 mA	Supported
Notes	
From Keysight U1253B OLED Handheld Digital Multimeter product fact sheet and U125x family comparison tables.	

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 14, 2026

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