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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U1252B Handheld Digital Multimeter

Agilent Keysight U1252B Handheld Digital Multimeter The Agilent/Keysight U1252B is a 50000-count handheld true-RMS DMM in the U1250 Series with AC+DC measurements and data logging. OEM U125x family comparison tables list 0.025% basic DCV accuracy to 1000 V, 100 kHz AC bandwidth class, and CAT III 1000 V / CAT IV 600 V protection. Electronics bench and field troubleshooting needing high-resolution handheld DCV/ACV, logging, and true-RMS measurements. Frequency Counter Maximum Class: 20 MHz class family The Agilent/Keysight U1252B is a 50000-count handheld true-RMS DMM in the U1250 Series with AC+DC measurements and data logging. OEM U125x family comparison tables list 0.025% basic DCV accuracy to 1000 V, 100 kHz AC bandwidth class, and CAT III 1000 V / CAT IV 600 V protection. Electronics bench and field troubleshooting needing high-resolution handheld DCV/ACV, logging, and true-RMS measurements. Frequency Counter Maximum Class: 20 MHz class family Capacitance Maximum Class: 100 mF class family



MODEL

**Agilent / Keysight
U1252B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U1252B

LISTING

<https://aumictechlabs.com/products/u1252b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

Accuracy: * Basic DC Voltage accuracy: Up to 0.025%. Measurement Functions: * Voltage: AC/DC voltage measurements up to 1000V. * AC Voltage Bandwidth: 100 kHz. * Current: AC/DC current

measurements up to 10A. * Resistance: Up to 500 M Ω . * Capacitance: Up to 100 mF. * Frequency: Built-in 20 MHz frequency counter. * Frequency measurement resolution: 0.02%. * Temperature: K-type and J-type temperature measurements. * Temperature Range: -200°C to +1372°C. * True RMS: AC and AC+DC True RMS measurements. Signal Generation: * Programmable square-wave generator with selectable frequency and duty cycle. Data Logging: * Manual and automated (interval) data logging. * Internal logging memory: 1000 points. * Data logging to PC via USB connection (U1173A/U1173B cable required). * Optional IR-to-Bluetooth adapter (U1177A/U1117A) for wireless data logging and remote monitoring. * Bundled GUI data-logging software. Connectivity: * USB connectivity for data transfer and analysis. * IR-to-Bluetooth connectivity. Power: * Built-in battery charging capability. * Long battery life of up to 36 hours. * Operates with rechargeable Ni-MH batteries. Environmental and Safety: * Operating temperature range: -20°C to +55°C. * CAT III 1000V and CAT IV 600V overvoltage protection. * 30 kA high energy fuse for protection during high-current measurements. * solid overmold enclosures for durability. * Pollution Degree II.

U1252B 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 Class	100 kHz class
True RMS Mode	AC plus DC
DC Current Maximum	10 A
Resistance Maximum Class	500 MOhm class
Frequency Counter Maximum Class	20 MHz class family
Capacitance Maximum Class	100 mF class family
Safety Category	CAT III 1000 V / CAT IV 600 V
Series Family	Keysight U1250 handheld DMM
Sibling OLED Model	U1253B
Operating Temperature Class	minus 20 C to 55 C class family
Battery Type Class	Rechargeable NiMH class
Diode And Continuity	Supported
Temperature Measurement	Supported
Peak Hold Class	Supported class
Form Factor	Handheld
Data Logging	Supported
Square Wave Generator Class	Family feature on some U125x
Display Type	LCD dual display
Bandwidth	Class: 100 kHz class
Operating temperature	Class: minus 20 C to 55 C class family

U1252B Specifications

PARAMETER	VALUE
Agilent Keysight U1252B Handheld Digital Multimeter	Overview
Applications	Electronics bench and field troubleshooting needing high-resolution handheld DCV/ACV, logging, and true-RMS measurements.
Key Features	50000 count dual display
Rechargeable battery platform class	CAT III 1000 V / CAT IV 600 V
Technical Specifications	Display Counts: 50000

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: minus 20 C to 55 C class family
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Operating Temperature Class	minus 20 C to 55 C class family
Battery Type Class	Rechargeable NiMH class
Diode And Continuity	Supported
Temperature Measurement	Supported
Peak Hold Class	Supported class
Form Factor	Handheld
Data Logging	Supported
Square Wave Generator Class	Family feature on some U125x
Display Type	LCD dual display Notes From Keysight U125x Handheld Digital Multimeter family comparison/fact sheets aligned to U1252B. Confirm exact capacitance/frequency rows on the U1252B-specific sheet.

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	
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PARAMETER	VALUE
Display Counts	50000
Basic DCV Accuracy	0.025 percent
DC Voltage Maximum	1000 V
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AC Bandwidth Class	100 kHz class
True RMS Mode	AC plus DC
DC Current Maximum	10 A
Resistance Maximum Class	500 MOhm class
Frequency Counter Maximum Class	20 MHz class family
Capacitance Maximum Class	100 mF class family
Safety Category	CAT III 1000 V / CAT IV 600 V
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Battery Type Class	Rechargeable NiMH class
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Form Factor	Handheld
Data Logging	Supported
Square Wave Generator Class	Family feature on some U125x
Display Type	LCD dual display
Notes	
From Keysight U125x Handheld Digital Multimeter family comparison/fact sheets aligned to U1252B. Confirm exact capacitance/frequency rows on the U1252B-specific sheet.	

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.