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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U1253A Handheld Digital Multimeter OLED

Agilent Keysight U1253A OLED Handheld Digital Multimeter The Agilent/Keysight U1253A is the OLED member of the U1250 Series 50000-count handheld DMM. OEM U1250 Series and 5990-4563EN comparison tables list 0.025 percent basic DCV, CAT III 1000 V / CAT IV 600 V, 20 MHz frequency counter, and 8 hour typical battery life. Handheld and bench troubleshooting needing high-contrast OLED dual display, true RMS, logging, and square-wave stimulus. Bright yellow OLED dual display with about 160 degree viewing angle The Agilent/Keysight U1253A is the OLED member of the U1250 Series 50000-count handheld DMM. OEM U1250 Series and 5990-4563EN comparison tables list 0.025 percent basic DCV, CAT III 1000 V / CAT IV 600 V, 20 MHz frequency counter, and 8 hour typical battery life. Handheld and bench troubleshooting needing high-contrast OLED dual display, true RMS, logging, and square-wave stimulus. Bright yellow OLED dual display with about 160 degree viewing angle Programmable square-wave generator for digital-circuit stimulus



MODEL

**Agilent / Keysight
U1253A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U1253A

LISTING

<https://aumictechlabs.com/products/u1253a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight U1253A is a 4.5-digit handheld digital multimeter featuring a unique Organic Light-Emitting Diode (OLED) display that offers exceptional clarity with a 160° viewing angle and a

2000:1 contrast ratio, making readings easy to discern even in challenging lighting conditions. This True RMS multimeter works with solid field use and electronics troubleshooting, offering a suite of measurement capabilities. Technical Specifications Display: Type: Organic Light-Emitting Diode (OLED) Resolution: 4.5 digits, 50,000 counts (full-scale dual display) Viewing Angle: 160° Contrast Ratio: 2000:1 Electrical Measurements: DC Voltage: * Ranges: 50.000 mV to 1000.0 V * Basic Accuracy: 0.025% AC Voltage (True RMS): * Ranges: 50.000 mV to 1000.0 V * Accuracy: Varies by frequency band (e.g., 1.5+60 to 0.4+40 for 20 Hz to 1 kHz) * AC+DC Measurement capability DC Current: * Ranges: 500.00 µA to 5.000 A (up to 10 A continuously) * Accuracy: Varies by range (e.g., 1.1+25 for 500 µA range) AC Current (True RMS): * Ranges: 500.00 µA to 5.000 A (up to 10 A continuously) * Accuracy: Varies by range and frequency Resistance: * Ranges: Up to 500 MΩ * Accuracy: Varies by range. For 500.00 Ω range: 0.01 Ω resolution, 1.04 mA test current Capacitance: * Ranges: Not explicitly detailed, but listed as a measurement function * Accuracy: 1% (comparable to Fluke 87-V) Frequency: * Counter Range: 20 MHz * Counter Resolution: 0.001 Hz (up to 99.999 Hz), 0.01 Hz (up to 999.99 Hz) * Accuracy: 0.02%+3 * Measurement capability up to 985 kHz at 1x division, up to 20 MHz at 100x division Temperature: * Measurement capability included * Requires thermocouple adapter and probe (not always included) Diode Test: Included Continuity Test: With beeper Duty Cycle: Measurement capability included Pulse Width Modulation (PWM): Programmable square-wave generator for stimulating electronic digital circuits * Output: 3V square wave * Frequency: Selectable from 0.5 Hz up to 20 MHz * Duty Cycle: Adjustable from 0.390625% to 99.609375% in 0.390625% steps * Rise Time: Approximately 500 ns dBm/dB: Measurement capability included Conductance: Measurement capability included Data Logging: Internal Memory: Up to 1000 points PC Connectivity: Via optional U1173A USB cable Bundled Software: Included for PC data logging Manual and Automatic logging modes MIN/MAX/AVG/NOW recording Interfaces: USB Connectivity: Required for PC connection (U1173A cable) Infrared (IR) Port: For data transfer Electrical Safety and Certifications: Overvoltage Protection: CAT III 1000V, CAT IV 600V High Energy Fuse: 30 kA Certifications: CE, CSA Double Insulation Physical: Design: solid for field use Color: Originally blue, later replaced by orange models for increased visibility Battery: Rechargeable 7.2 V battery Included Accessories (Typical): Silicone test leads Alligator clips Calibration Report Data Logging Software Quick Start Guide User's and Service Guide (on CD) AC Adapter/Power Cord Compatibility and Support: Obsolete Model: Keysight discontinued handheld test tools in blue. Last Order Date: November 30, 2011. End of Support Life: March 1, 2017. Replacement Model: U1253B MET/CAL procedures available from third-party vendors Why Choose Aumictech for Agilent/Keysight U1253A? At Aumictech, we specialize in supplying high-end test and measurement equipment. Whether you need precise troubleshooting capabilities, advanced data logging for in-depth analysis, or reliable performance for demanding field applications, our team ensures the Agilent/Keysight U1253A delivers maximum performance for your application.

Features & description

From manufacturer datasheet

Built-in charging for NiMH cells

IR USB connectivity for logging 1 ms peak hold for inrush voltage and current Technical Specifications
Instrument Type: Handheld true RMS OLED digital multimeter Series Family: Agilent U1250 Series
Display Counts: 50000 count dual display 5-digit primary and secondary Display Type: OLED
approximately 160 degree viewing angle; contrast ratio 2000:1 Basic DCV Accuracy: 0.025 percent;
1000 V maximum AC Voltage Maximum: 1000 V AC Bandwidth: 30 kHz on U1253A column of handheld
comparison table True Rms Mode: AC DC Current Maximum: 10 A Basic DCI 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: minus 200 C to 1372 C Temperature
Basic Accuracy: 0.30 percent Conductance Range: 0.01 nS (100 GOhm) to 500 nS Safety Category:
CAT III 1000 V / CAT IV 600 V Power Consumption Maximum: 420 mVA Battery Life Typical: 8 hours
Battery Types: 9 V alkaline or carbon zinc; 7.2 V NiMH rechargeable class Charging Time: less than
220 minutes approximately at 10 C to 30 C Operating Temperature Full Accuracy: minus 20 C to 55 C;
80 percent RH to 35 C decreasing to 50 percent RH at 55 C

U1253A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Handheld true RMS OLED digital multimeter
Series Family	Agilent U1250 Series
Display Counts	50000 count dual display 5-digit primary and secondary
Display Type	OLED approximately 160 degree viewing angle; contrast ratio 2000:1
Basic DCV Accuracy	0.025 percent; 1000 V maximum
AC Voltage Maximum	1000 V
AC Bandwidth	30 kHz on U1253A column of handheld comparison table
True Rms Mode	AC
DC Current Maximum	10 A
Basic DCI 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	minus 200 C to 1372 C
Temperature Basic Accuracy	0.30 percent
Conductance Range	0.01 nS (100 GOhm) to 500 nS
Safety Category	CAT III 1000 V / CAT IV 600 V
Power Consumption Maximum	420 mVA
Battery Life Typical	8 hours
Battery Types	9 V alkaline or carbon zinc; 7.2 V NiMH rechargeable class
Charging Time	less than 220 minutes approximately at 10 C to 30 C
Operating Temperature Full Accuracy	minus 20 C to 55 C; 80 percent RH to 35 C decreasing to 50 percent RH at 55 C

PARAMETER	VALUE
Altitude	0 to 2000 m CAT III 1000 V / CAT IV 600 V
CMRR	greater than 100 dB at DC 50/60 Hz plus or minus 0.1 percent (1 kOhm unbalanced)
NMRR	greater than 90 dB at DC 50/60 Hz plus or minus 0.1 percent
Temperature Coefficient	0.15 x specified accuracy perC outside 18 to 28 C
Crest Factor	less than 3.0
Dimensions HxWxD	203.5 mm x 94.4 mm x 59.0 mm
Weight With Battery	527 plus or minus 5 g
Storage Temperature	minus 40 C to 70 C with battery removed
Shock Vibration	tested to IEC/EN 60068-2
Connectivity	IR to USB
Square Wave Generator	selectable frequency, pulse width, and duty cycle
Percent Scale	4 mA to 20 mA or 0 mA to 20 mA
Bandwidth	30 kHz on U1253A column of handheld comparison table
Operating temperature	Full Accuracy: minus 20 C to 55 C; 80 percent RH to 35 C decreasing to 50 percent RH at 55 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to 70 C with battery removed
Operating temperature	Full Accuracy: minus 20 C to 55 C; 80 percent RH to 35 C decreasing to 50 percent RH at 55 C
Operating Temperature	Full Accuracy: minus 20 C to 55 C; 80 percent RH to 35 C decreasing to 50 percent RH at 55 C
Operating Temperature Full Accuracy	minus 20 C to 55 C; 80 percent RH to 35 C decreasing to 50 percent RH at 55 C
Altitude	0 to 2000 m CAT III 1000 V / CAT IV 600 V
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Weight With Battery	527 plus or minus 5 g
Shock Vibration	tested to IEC/EN 60068-2
Connectivity	IR to USB
Square Wave Generator	selectable frequency, pulse width, and duty cycle
Percent Scale	4 mA to 20 mA or 0 mA to 20 mA Notes Numeric rows from Agilent/Keysight U1250 Series Handheld Digital Multimeters data sheet and 5990-4563EN U1253A comparison column.

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
Instrument Type	Handheld true RMS OLED digital multimeter
Series Family	Agilent U1250 Series
Display Counts	50000 count dual display 5-digit primary and secondary
Display Type	OLED approximately 160 degree viewing angle; contrast ratio 2000:1
Basic DCV Accuracy	0.025 percent; 1000 V maximum
AC Voltage Maximum	1000 V
AC Bandwidth	30 kHz on U1253A column of handheld comparison table
True Rms Mode	AC
DC Current Maximum	10 A
Basic DCI 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	minus 200 C to 1372 C
Temperature Basic Accuracy	0.30 percent
Conductance Range	0.01 nS (100 GOhm) to 500 nS
Safety Category	CAT III 1000 V / CAT IV 600 V
Power Consumption Maximum	420 mVA
Battery Life Typical	8 hours
Battery Types	9 V alkaline or carbon zinc; 7.2 V NiMH rechargeable class
Charging Time	less than 220 minutes approximately at 10 C to 30 C
Operating Temperature Full Accuracy	minus 20 C to 55 C; 80 percent RH to 35 C decreasing to 50 percent RH at 55 C

PARAMETER	VALUE
Altitude	0 to 2000 m CAT III 1000 V / CAT IV 600 V
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Shock Vibration	tested to IEC/EN 60068-2
Connectivity	IR to USB
Square Wave Generator	selectable frequency, pulse width, and duty cycle
Percent Scale	4 mA to 20 mA or 0 mA to 20 mA

Notes

Numeric rows from Agilent/Keysight U1250 Series Handheld Digital Multimeters data sheet and 5990-4563EN U1253A comparison column.

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.