


Aumictech

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

AGILENT / HP / KEYSIGHT

Agilent HP Keysight U1252A

Battery: rechargeable Ni-MH with built-in charger Remote PC link: optional U1173A IR to USB cable Square wave generator: programmable frequency pulse width duty cycle dBm measurement: selectable reference impedance Accuracy and feature set from Agilent U1250 Series datasheet and U1251A/U1252A user guide for U1252A. Confirm firmware revision, battery health, and optional IR-USB cable. Remote PC link: optional U1173A IR to USB cable Square wave generator: programmable frequency pulse width duty cycle dBm measurement: selectable reference impedance Accuracy and feature set from Agilent U1250 Series datasheet and U1251A/U1252A user guide for U1252A. Confirm firmware revision, battery health, and optional IR-USB cable.



MODEL

**Agilent / HP /
Keysight U1252A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U1252A

LISTING

<https://aumictechlabs.com/products/u1252a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent HP Keysight U1252A is a 4.5-digit handheld digital multimeter engineered for advanced electronic troubleshooting and precision measurement. Its dual display with 50,000 counts resolution delivers high-accuracy DC voltage measurement to $\pm 0.03\% + 5$ Digits, supported by True RMS AC and AC+DC capabilities across voltage and current ranges. The instrument integrates a 20 MHz frequency counter, programmable square wave generator, and comprehensive measurement functions including capacitance, resistance, temperature (Type J and K thermocouple), duty cycle, and 4-20 mA process loop analysis with percentage

readout. Technical Specifications Measurement Ranges & Accuracy DC Voltage: 1.0 kV maximum, $\pm 0.03\%$ + 5 Digits best accuracy AC Voltage: $\pm 0.4\%$ + 40 Digits best accuracy DC Current: 10 A maximum, $\pm 0.3\%$ + 5 Digits best accuracy AC Current: $\pm 3\%$ + 60 Digits best accuracy Resistance: $\pm 3\%$ + 10 Digits best accuracy Capacitance: 100 mF maximum, $\pm 3\%$ + 10 Digits best accuracy Temperature: +1372°C maximum, $\pm 0.3\%$ + 3 °C best accuracy Frequency Counter: 20 MHz Display Resolution: 50,000 counts (dual display) Input Impedance 50 mV–1000 mV ranges: $>1\text{ G}\Omega$ 5 V–1000 V ranges: 10 M Ω nominal in parallel with 1.1 M Ω at dual display Key Features Data logging: manual storage to 100 or 200 points; unlimited logging to PC via optional U1173A IR-USB cable True RMS AC and AC+DC measurements Diode test, duty cycle measurement, and pulse generation Conductance and dBm measurement modes Blue LED display backlight Compact form factor: 59 mm $\times$ 94.4 mm $\times$ 203.5 mm; 527 g Operating temperature: -20°C to $+55^{\circ}\text{C}$ Typical Applications Electronic circuit troubleshooting and R&D Field service and maintenance measurement Process loop monitoring and validation Frequency analysis and signal characterization Compatibility & Integration IR-USB connectivity with bundled data logging software (optional U1173A cable for PC connection) Safety ratings: CAT III 1000 V, CAT IV 600 V Certifications: CE, CSA; compliance with IEC 61010-1, UL 61010-1, CAN/CSA 22.2 61010-1

Features & description

From manufacturer datasheet

Features

• 50000 counts dual display resolution • Basic DCV accuracy 0.025 percent • True-RMS AC and AC+DC (U1252A) • Rechargeable Ni-MH with internal charger • Frequency counter to 20 MHz and square-wave generator • J and K thermocouple temperature measurement • CAT III 1000 V / CAT IV 600 V safety rating

Applications

• Precision DC and True-RMS AC voltage and current troubleshooting • Resistance capacitance temperature and frequency measurements • Data logging and PC connectivity via optional IR-USB cable • Square-wave stimulus and frequency counter tasks in the field

U1252A Characteristics / Specifications

PARAMETER	VALUE
Model	U1252A
Manufacturer	Agilent / Keysight
Instrument Type	Handheld Digital Multimeter
Alias	U1252A; Agilent U1252A; Keysight U1252A
Display counts	50000 on both displays
Basic DC voltage accuracy	0.025 percent of reading
DCV 500.00 mV accuracy	0.025 percent + 5 LSD
DCV ranges	50 mV to 1000 V family
Resistance maximum	500 MOhm
Conductance range	0.01 nS to 50 nS family
Capacitance maximum	100 mF
Frequency counter maximum	20 MHz
AC measurement	True RMS
AC plus DC measurement	yes U1252A
Temperature sensors	TypeJand TypeKTypeKtemperature range: -200 to 1372 C
TypeJtemperature range	-210 to 1200 C
Temperature accuracy typical	0.3 percent + 3 C
Diode test resolution	0.1 mV
Peak hold	1 ms
Manual storage points	100
PC logging	unlimited with IR-USB option
Safety category	CAT III 1000 V / CAT IV 600 V
CMRR	greater than 90 dB at DC 50/60 Hz
NMRR	greater than 60 dB at DC 50/60 Hz
Operating temperature	-20 C to +55 C

PARAMETER	VALUE
Dimensions HxWxD	203.5 mm x 94.4 mm x 59.0 mm
Battery	rechargeable Ni-MH with built-in charger
Remote PC link	optional U1173A IR to USB cable
Square wave generator	programmable frequency pulse width duty cycle dBm measurement: selectable reference impedance
Percent scale	4 to 20 mA or 0 to 20 mA Notes Accuracy and feature set from Agilent U1250 Series datasheet and U1251A/U1252A user guide for U1252A. Confirm firmware revision, battery health, and optional IR-USB cable.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	20 C to +55 C
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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	
Technical Specifications	
PARAMETER	VALUE
Model	U1252A
Manufacturer	Agilent / Keysight
Instrument Type	Handheld Digital Multimeter
Alias	U1252A; Agilent U1252A; Keysight U1252A
Display counts	50000 on both displays
Basic DC voltage accuracy	0.025 percent of reading
DCV 500.00 mV accuracy	0.025 percent + 5 LSD
DCV ranges	50 mV to 1000 V family
Resistance maximum	500 MOhm
Conductance range	0.01 nS to 50 nS family
Capacitance maximum	100 mF
Frequency counter maximum	20 MHz
AC measurement	True RMS
AC plus DC measurement	yes U1252A
Temperature sensors	Type J and Type K
Type K temperature range	-200 to 1372 C
Type J temperature range	-210 to 1200 C
Temperature accuracy typical	0.3 percent + 3 C
Diode test resolution	0.1 mV
Peak hold	1 ms
Manual storage points	100
PC logging	unlimited with IR-USB option
Safety category	CAT III 1000 V / CAT IV 600 V
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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.