

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP U1272A Handheld Digital Multimeter

Keysight Agilent U1272A Handheld Digital Multimeter 30000 Count The Agilent/Keysight U1272A is a 4.5-digit (30000 count LCD, 33000 maximum) True RMS AC+DC handheld DMM with 0.05 percent + 2 counts basic DCV accuracy, ZLOW stray-voltage mode, Smart Ohm, 1 kHz low-pass filter, 100 kHz AC bandwidth, and 10000-point logging. CAT III 1000 V / CAT IV 600 V and IP54. Optional U1173A IR-USB and U1177A IR-Bluetooth. Industrial electrical troubleshooting including VFD outputs with LPF; stray-voltage checks with ZLOW; field logging; temperature capacitance frequency and diode work under CAT III/IV ratings. The Agilent/Keysight U1272A is a 4.5-digit (30000 count LCD, 33000 maximum) True RMS AC+DC handheld DMM with 0.05 percent + 2 counts basic DCV accuracy, ZLOW stray-voltage mode, Smart Ohm, 1 kHz low-pass filter, 100 kHz AC bandwidth, and 10000-point logging. CAT III 1000 V / CAT IV 600 V and IP54. Optional U1173A IR-USB and U1177A IR-Bluetooth. Industrial electrical troubleshooting including VFD outputs with LPF; stray-voltage checks with ZLOW; field logging; temperature capacitance frequency and diode work under CAT III/IV ratings.

**MODEL****Keysight / Agilent /
HP U1272A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****U1272A****LISTING**[https://aumictechlabs.c
om/products/u1272a-2/](https://aumictechlabs.com/products/u1272a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight U1272A is a 4.5-digit handheld digital multimeter engineered for field and bench electrical measurements across utility, industrial, and service environments. Its 30,000-count dual display with analog bar graph delivers true RMS readings at up to 7 readings per second, supported by 10,000-point internal data logging and 300-hour battery life. The unit combines rugged IP54 design with CAT III 1000 V and CAT IV 600 V safety ratings for demanding fieldwork.

Technical Specifications

Voltage & Current Measurement DC voltage: 30 mV to 1000 V, $\pm 0.05\%$ basic accuracy AC voltage: 30 mV to 1000 V, 45 Hz to 65 kHz bandwidth DC current: 300 μ A to 10 A with tiered overload protection AC current: 300 μ A to 10 A, 45 Hz to 2 kHz standard bandwidth

Resistance, Capacitance & Frequency Resistance: 30 Ω to 300 M Ω with Smart Ω offset compensation Capacitance: 10 nF to 10 mF Frequency: 99.999 Hz to >1 MHz

Temperature (thermocouple): -200 °C to 1372 °C, J and K type

Additional Functions Auto-diode testing with continuity beeper dBm and dBV measurements with selectable impedance Peak detect captures transients to 250 μ s Low-pass filter for variable frequency drive troubleshooting Smooth function for stable reading output

Key Features ZLOW Function: Nominal 2 k Ω input impedance eliminates ghost and stray voltages through coupling dissipation - critical for precision work on high-impedance circuits. Smart Ω : Offset compensation removes false readings from DC bias and leakage current, improving accuracy on in-circuit resistance measurements. Peak Detect: 250 μ s capture bandwidth isolates transient events in switched power systems and industrial controls. Low Pass Filter: Attenuates harmonics and high-frequency noise for valid measurements across variable frequency drives without spectral distortion.

Typical Applications Field service and preventive maintenance on three-phase industrial equipment Commissioning and troubleshooting of VFD-driven motor circuits In-circuit resistance and capacitance diagnostics on PCBs with active biasing Temperature monitoring via thermocouple interface Data logging of slow transients with 10,000-point memory

Connectivity & Integration Optional wireless connectivity via U1177A Bluetooth adapter and U1173A IR-USB cable enables remote data logging and PC integration for test documentation and trend analysis.

Features & description

From manufacturer datasheet

Features

- Dual display LCD with backlight and visual continuity alert

U1272A Characteristics / Specifications

PARAMETER	VALUE
Model	U1272A
Manufacturer	Agilent / Keysight
Instrument Type	Handheld Digital Multimeter
Family	U1270 Series
Alias	U1272A; Agilent U1272A; Keysight U1272A
Display Counts	30000 (maximum reading 33000)
Basic DCV Accuracy	0.05 percent + 2 counts at 23 plus or minus 5 C
DCV Ranges	30 mV 300 mV 3 V 30 V 300 V 1000 V
DCV 30 mV Accuracy	0.05 percent + 20 counts
DCV 30 V to 1000 V Accuracy	0.05 percent + 2 counts
ACV Maximum	1000 V True RMS AC+DC
AC Bandwidth	45 Hz to 100 kHz (U1272A)
ACI DCI Maximum	10 A (20 A for 30 s)
Resistance Maximum	300 MOhm
Frequency Maximum	999.99 kHz class (0.005 percent + 5 counts)
Capacitance	10 nF to 10 mF (1 percent + 2 counts class)
Temperature Type K	-200 C to 1372 C (1 percent + 1 C class)
Temperature Type J	-210 C to 1200 C
Peak Detect	250 us
Logging Memory	10000 points
Measurement Rate VI	7 readings per second
Low Pass Filter	1 kHz LPF for VFD
ZLOW Mode	yes (1000 V range)
Smart Ohm	yes
CMRR	greater than 120 dB at DC 50/60 Hz 1 kOhm unbalanced

PARAMETER	VALUE
NMRR	greater than 60 dB at 50/60 Hz
Safety Category	CAT III 1000 V / CAT IV 600 V
Ingress	IP54
Operating Temperature	-20 C to 55 C 0 to 80 percent RH
Storage Temperature	-40 C to 70 C
Altitude	3000 m
Dimensions WxHxD	92 mm x 207 mm x 59 mm
Weight	520 g with batteries
Battery	4 × 1.5 V AAA alkaline; 300 hours typical DCV
Fuses	440 mA/1000 V and 11 A/1000 V 30 kA fast acting
Remote Link	optional U1173A IR USB; optional U1177A Bluetooth
Calibration Cycle	1 year Notes Accuracy and feature set from Agilent/Keysight U1270 Series data sheet for U1272A. Confirm firmware battery chemistry and optional IR cable. Do not mix U1271A AC-only and 100 MOhm limits with this model.
Bandwidth	45 Hz to 100 kHz (U1272A)

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 C to 70 C
Operating temperature	20 C to 55 C 0 to 80 percent RH
Operating Temperature	20 C to 55 C 0 to 80 percent RH
Altitude	3000 m
Dimensions WxHxD	92 mm x 207 mm x 59 mm
Weight	520 g with batteries
Battery	4 × 1.5 V AAA alkaline; 300 hours typical DCV
Fuses	440 mA/1000 V and 11 A/1000 V 30 kA fast acting
Remote Link	optional U1173A IR USB; optional U1177A Bluetooth
Calibration Cycle	1 year Notes Accuracy and feature set from Agilent/Keysight U1270 Series data sheet for U1272A. Confirm firmware battery chemistry and optional IR cable. Do not mix U1271A AC-only and 100 MOhm limits with this model.

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	U1272A
Manufacturer	Agilent / Keysight
Instrument Type	Handheld Digital Multimeter
Specifications	
PARAMETER	VALUE
Family	U1270 Series
Alias	U1272A; Agilent U1272A; Keysight U1272A
Display Counts	30000 (maximum reading 33000)
Specifications	
PARAMETER	VALUE
Basic DCV Accuracy	0.05 percent + 2 counts at 23 plus or minus 5 C
DCV Ranges	30 mV 300 mV 3 V 30 V 300 V 1000 V
DCV 30 mV Accuracy	0.05 percent + 20 counts
Specifications	
PARAMETER	VALUE
DCV 30 V to 1000 V Accuracy	0.05 percent + 2 counts
ACV Maximum	1000 V True RMS AC+DC
AC Bandwidth	45 Hz to 100 kHz (U1272A)
Specifications	
PARAMETER	VALUE
ACI DCI Maximum	10 A (20 A for 30 s)
Resistance Maximum	300 MOhm
Frequency Maximum	999.99 kHz class (0.005 percent + 5 counts)

Specifications

PARAMETER	VALUE
Capacitance	10 nF to 10 mF (1 percent + 2 counts class)
Temperature Type K	-200 C to 1372 C (1 percent + 1 C class)
Temperature Type J	-210 C to 1200 C

Specifications

PARAMETER	VALUE
Peak Detect	250 us
Logging Memory	10000 points
Measurement Rate VI	7 readings per second

Specifications

PARAMETER	VALUE
Low Pass Filter	1 kHz LPF for VFD
ZLOW Mode	yes (1000 V range)
Smart Ohm	yes

Specifications

PARAMETER	VALUE
CMRR	greater than 120 dB at DC 50/60 Hz 1 kOhm unbalanced
NMRR	greater than 60 dB at 50/60 Hz
Safety Category	CAT III 1000 V / CAT IV 600 V

Specifications

PARAMETER	VALUE
Ingress	IP54
Operating Temperature	-20 C to 55 C 0 to 80 percent RH
Storage Temperature	-40 C to 70 C

Specifications

PARAMETER	VALUE
Altitude	3000 m
Dimensions WxHxD	92 mm x 207 mm x 59 mm
Weight	520 g with batteries

Specifications

PARAMETER	VALUE
Battery	4 x 1.5 V AAA alkaline; 300 hours typical DCV
Fuses	440 mA/1000 V and 11 A/1000 V 30 kA fast acting
Remote Link	optional U1173A IR USB; optional U1177A Bluetooth

Calibration Cycle: 1 year

Notes

Accuracy and feature set from Agilent/Keysight U1270 Series data sheet for U1272A. Confirm firmware battery chemistry and optional IR cable. Do not mix U1271A AC-only and 100 MOhm limits with this model.

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.