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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U1271A Handheld Digital Multimeter

Agilent Keysight U1271A Handheld Digital Multimeter The Agilent/Keysight U1271A is a 30000-count industrial handheld DMM with true-RMS AC measurements, CAT III 1000 V / CAT IV 600 V safety, and IP54 sealing. OEM U1270 Series tables list 0.05 percent basic DCV accuracy, 20 kHz AC bandwidth, resistance to 100 MOhm, and 200-point logging memory. Industrial electrical troubleshooting, VFD output checks with low-pass filter, and field voltage/current measurements requiring CAT IV 600 V protection. LCD backlight with visual continuity alert

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MODEL

**Agilent / Keysight
U1271A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U1271A

LISTING

<https://aumictechlabs.com/products/u1271a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight U1271A is a 4.5-digit handheld digital multimeter designed for industrial environments, offering true RMS measurements and a 30,000-count display. It is built to

withstand harsh conditions, featuring an IP54 rating for dust and water resistance and the capability to operate in sub-zero temperatures down to -20°C, with some models in the series supporting even lower temperatures and operation at altitudes up to 3,000 meters. The multimeter is equipped with various intelligent features to enhance productivity and safety. These include a Low Pass Filter (LPF) for accurate Variable Frequency Drive (VFD) output measurements, a Low Impedance Mode (ZLOW) to eliminate false readings caused by stray voltages, and a Peak Detect function capable of capturing transients as fast as 250 µs. For troubleshooting, It has a Qik-V test to quickly identify AC or DC signal types. The display is an OLED screen with a high contrast ratio for clear readability, even in low-light conditions.

****Technical Specifications****

****General Features****

- **Display Count:**** 30,000*
- **Display Resolution:**** 4.5 digits*
- **True RMS:**** Yes*
- **AC Bandwidth:**** 20 kHz (U1271A)*
- **Overvoltage Protection:**** CAT III 1000 V, CAT IV 600 V*
- **Ingress Protection Rating:**** IP54*
- **Operating Temperature:**** -20°C to 55°C*
- **Altitude:**** Up to 2,000 meters (Some models in series up to 3,000 meters)*
- **Power Source:**** Four 1.5 V AAA alkaline batteries*
- **Battery Life:**** 300 hours*
- **Weight:**** 518 grams (with batteries)*
- **Dimensions:**** 92 × 207 × 59 mm (W x H x D)

****Electrical Specifications****

****Voltage Measurement****

- **DC Voltage Range:**** 30 mV to 1 kV*
- **AC Voltage Range:**** 30 mV to 1 kV*
- **DC Voltage Accuracy:**** ±0.05% + 2 counts*
- **AC Voltage Accuracy:**** ±0.7% + 20 counts*
- **Low Pass Filter (LPF):**** Enabled for AC voltage measurements to filter high-frequency noise and harmonics.*
- **Low Impedance Mode (ZLOW):**** Nominal impedance of 2 kΩ, used to eliminate stray voltages and improve measurement safety and efficiency.*
- **Qik-V Test:**** Quickly identifies the measured signal type as AC or DC.*

****Current Measurement****

- **DC Current Range:**** Up to 10 A*
- **AC Current Range:**** Up to 10 A*
- **DC Current Accuracy:**** ±0.3% + 10 counts*
- **AC Current Accuracy:**** ±1.0% + 25 counts*
- **Fuse Protection:**** 300 µA to 300 mA range: 0.44 A/1000 V, 10 × 35 mm fast-acting fuse
- 3 A to 10 A range: 11 A/1000 V, 10 × 38 mm fast-acting fuse

****Resistance Measurement****

- **Resistance Range:**** 100 MΩ*
- **Smart Ω Functionality:**** Enhances accuracy by compensating for offset and leakage current (available for ranges 30 Ω to 300 kΩ on U1272A, potentially applicable to U1271A via related series functions).*
- **Continuity Test:**** Detects intermittent shorts and opens as short as 1 ms, with visual and audible alerts.*

****Capacitance Measurement****

- **Capacitance Range:**** 0.01 µF to 10,000 µF

****Frequency Measurement****

- **Frequency Range:**** Not explicitly specified for U1271A, but common in similar models within the U1270 series.*

****Temperature Measurement****

- **Temperature Measurement:**** Supported via K-type thermocouple and adapter (included).*

****Other Measurement Functions****

- **Diode Test:**** Supported.*
- **Min/Max Recording:**** Available.*
- **Peak Hold:**** Available.*
- **Null/Scale Functions:**** Available.*
- **Manual Datalogging:**** Supported.*
- **PC Connectivity:**** Via optional IR-to-USB cable (e.g., U1173A).

****Interfaces****

- **Connectivity:**** IR-to-USB for PC data transfer (requires optional cable and software).*
- **Optional Bluetooth Connectivity:**** Via U1177A adapter for wireless data transfer to smartphones and tablets.*

****Physical****

- **Dimensions:**** 92 × 207 × 59 mm (W x H x D)*
- **Weight:**** 518 grams (with batteries)*
- **Enclosure:**** Rugged, IP54 rated for dust and water resistance.*
- **Display:**** OLED display with high contrast ratio for clear visibility.*

****Compatibility****

- **Software:**** Agilent GUI Data Logger Software for PC connectivity.*

****Accessories:**** Compatible with U1173A IR-USB cable, U1177A IR-to-

U1271A Characteristics / Specifications

PARAMETER	VALUE
Display Resolution	30000 counts
Basic DCV Accuracy	0.05 percent plus 2 counts
DC Voltage Ranges	30 mV to 1000 V
DC Voltage Accuracy 30 V To 1000 V	0.05 percent plus 2 counts
Maximum Voltage AC Or DC	1000 V
Current Maximum Continuous	10 A
Current Maximum Short	20 A for 30 s
AC Bandwidth	20 kHz
Resistance Maximum	100 MOhm
True RMS Mode	AC
Low Pass Filter	1 kHz LPF for VFD measurements
Peak Detection	up to 250 us
Measurement Rate Voltage Current	7 readings per second
Logging Memory Points	200
Safety Category	CAT III 1000 V / CAT IV 600 V
Ingress Protection	IP54
Operating Altitude Maximum	3000 m
Operating Temperature	minus 20 C to 55 C
Battery Type	4 × 1.5 V AAA alkaline or lithium
Battery Life Typical	300 hours typical alkaline DCV
Fuse Current Path	11 A / 1000 V 30 kA fast acting
Fuse mA Path	440 mA / 1000 V 30 kA fast acting
Display Type	LCD maximum reading 33000 counts
Bandwidth	20 kHz

U1271A Specifications

PARAMETER	VALUE
Agilent Keysight U1271A Handheld Digital Multimeter	Overview
LCD backlight with visual continuity alert	Low pass filter for VFD measurements
Optional IR USB and Bluetooth adapters	IP54 water and dust resistance
Technical Specifications	Display Resolution: 30000 counts

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	minus 20 C to 55 C
Operating Temperature	minus 20 C to 55 C
Battery Type	4 × 1.5 V AAA alkaline or lithium
Battery Life Typical	300 hours typical alkaline DCV
Fuse Current Path	11 A / 1000 V 30 kA fast acting
Fuse mA Path	440 mA / 1000 V 30 kA fast acting
Display Type	LCD maximum reading 33000 counts Notes From Keysight/Agilent U1270 Series Handheld Digital Multimeters data sheet (5990-6425). Model-specific rows match the Basic Features comparison table.

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 Resolution	30000 counts
Basic DCV Accuracy	0.05 percent plus 2 counts
DC Voltage Ranges	30 mV to 1000 V
DC Voltage Accuracy 30 V To 1000 V: 0.05 percent plus 2 counts	
Specifications	
PARAMETER	VALUE
Maximum Voltage AC Or DC	1000 V
Current Maximum Continuous	10 A
Current Maximum Short	20 A for 30 s
AC Bandwidth	20 kHz
Resistance Maximum	100 MOhm
True RMS Mode	AC
Low Pass Filter	1 kHz LPF for VFD measurements
Peak Detection	up to 250 us
Measurement Rate Voltage Current	7 readings per second
Logging Memory Points	200
Safety Category	CAT III 1000 V / CAT IV 600 V
Ingress Protection	IP54
Operating Altitude Maximum	3000 m
Operating Temperature	minus 20 C to 55 C
Battery Type	4 x 1.5 V AAA alkaline or lithium
Battery Life Typical	300 hours typical alkaline DCV
Fuse Current Path	11 A / 1000 V 30 kA fast acting
Fuse mA Path	440 mA / 1000 V 30 kA fast acting
Display Type	LCD maximum reading 33000 counts

Notes

From Keysight/Agilent U1270 Series Handheld Digital Multimeters data sheet (5990-6425). Model-specific rows match the Basic Features comparison table.

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.