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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U1281A Handheld Digital Multimeter

Agilent Keysight U1281A Handheld Digital Multimeter The Agilent/Keysight U1281A is a rugged IP67 60000-count handheld DMM with AC+DC true RMS and 0.025 percent basic DCV accuracy. OEM U1280 Series data list voltage to 1000 V, current to 10 A, resistance to 60 MOhm, frequency to 9.9999 MHz, capacitance to 100 mF, and about 800 hours battery life with CAT III 1000 V / CAT IV 600 V ratings. Harsh industrial field service, outdoor troubleshooting with immersion-rated sealing, and long-shift electrical measurements. The Agilent/Keysight U1281A is a rugged IP67 60000-count handheld DMM with AC+DC true RMS and 0.025 percent basic DCV accuracy. OEM U1280 Series data list voltage to 1000 V, current to 10 A, resistance to 60 MOhm, frequency to 9.9999 MHz, capacitance to 100 mF, and about 800 hours battery life with CAT III 1000 V / CAT IV 600 V ratings. Harsh industrial field service, outdoor troubleshooting with immersion-rated sealing, and long-shift electrical measurements. Basic DCV Accuracy: 0.025 percent plus 5 counts



MODEL Agilent / Keysight U1281A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU U1281A	LISTING https://aumictechlabs.com/products/u1281a-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight U1281A is a rugged, handheld digital multimeter engineered for demanding industrial and field applications, offering solid construction and high-precision measurements. This

instrument can withstand harsh environmental conditions, making it suitable for troubleshooting and maintenance tasks in various sectors. Its durability, coupled with advanced measurement capabilities, ensures reliable performance where it matters most.

Technical Specifications

General Features: Display: 4½ digit backlit LCD Display Count: 60,000 counts True RMS: Yes Data Logging: Yes, internal memory capable of storing 10,000 readings Connectivity: Infrared (IR) port for PC connectivity via optional IR-to-USB cable or IR-to-Bluetooth adapter Programmability: Capable of remote operation and integration into larger test systems via PC software Battery Life: Up to 800 hours Power Source: 4 x AA batteries or rechargeable battery pack

Electrical Measurement Capabilities:

- * DC Voltage: * Range: 60 mV to 1000 V (also specified as 100 µV to 1000 V) * Accuracy: 0.025% + 5 counts
- * AC Voltage: * Range: 60 mV to 1000 V (also specified as 100 µV to 1000 V) * Accuracy: 0.3% + 25 counts (20 Hz to 1 kHz) * True RMS Accuracy: * 20 Hz to 45 Hz: 1.0% + 60 counts * 45 Hz to 1 kHz: 0.3% + 25 counts * 1 kHz to 10 kHz: (accuracy not explicitly stated, but implied to be within broader ranges) * 10 kHz to 20 kHz: (accuracy not explicitly stated, but implied to be within broader ranges) * 20 kHz to 100 kHz: (accuracy not explicitly stated, but implied to be within broader ranges)
- * DC Current: * Range: 600 µA to 10 A (also specified as 100 µA to 10 A) * Accuracy: 0.05% + 5 counts
- * AC Current: * Range: 600 µA to 10 A (also specified as 100 µA to 10 A) * Accuracy: 0.6% + 25 counts
- * Resistance: * Range: 100 mΩ to 100 MΩ
- * Capacitance: * Range: 1 nF to 100 mF
- * Frequency: * Range: 1 Hz to 200 kHz
- * Temperature: * Range: -200°C to +1372°C (using K-type thermocouple)

Continuity Test: With visual and audio alerts

Diode Test: Included

Vsense Feature: For quick detection of AC voltage presence without direct contact

Low Pass Filter (LPF): For blocking unwanted high-frequency signals from VFDs, enabling accurate measurement of VFD output signals

****Electrical Specifications**

Overload Protection: ** AC/DC Voltage: CAT IV 600 V / CAT III 1000 V Current: * 6 A and 10 A ranges: Protected by a 10 × 38 mm, 11 A / 1000 V, 20 kA minimum fast-acting fuse * Other current ranges: 1000 Vrms

Interfaces: Infrared (IR) Port: For data transfer to PC via optional IR-to-USB cable. Compatible with Keysight Handheld Meter Logger software. Optional Bluetooth Connectivity: Available with the U1117A IR-to-Bluetooth adapter for wireless data transfer. Remote Switch Probe Input: For initiating manual logging functions.

Physical Characteristics: Rugged Design: * IP67 certified water and dust resistance * Tested to withstand drops up to 3 meters (10 feet) Dimensions: 184 mm x 87 mm x 55 mm Weight: Approximately 540 g (including batteries) Operating Temperature: -20°C to 55°C Storage Temperature: -40°C to 70°C Altitude: Up to 3000 m Environmental and Safety Compliance: Safety Ratings: CAT III 1000 V, CAT IV 600 V CE Mark: Complies with relevant European Legal Directives ICES/NMB-001: Complies with Canadian ICES-001 WEEE Directive: Complies with WEEE Directive (2002/96/EC) Included Accessories (Typical): Test lead set IR-to-USB cable Quick start guide Batteries Certificate of calibration

Why Choose Aumictech for Keysight U1281A? At Aumictech, we specialize in supplying test and measurement equipment. Whether you need precise industrial multimeters, rugged field-testing instruments, or reliable laboratory-grade tools, our team ensures the Keysight U1281A delivers maximum performance and durability for your critical applications.

U1281A Characteristics / Specifications

PARAMETER	VALUE
Display Counts	60000
Basic DCV Accuracy	0.025 percent plus 5 counts
DC Voltage Range	60 mV to 1000 V
AC Voltage Range	60 mV to 1000 V
AC Voltage Accuracy Class	0.3 percent plus 25 counts
AC Bandwidth	30 kHz
True RMS Mode	AC plus DC
DC Current Range	600 uA to 10 A
DC Current Accuracy	0.05 percent plus 5 counts
AC Current Accuracy Class	0.6 percent plus 25 counts
Resistance Range	600 ohm to 60 MOhm
Resistance Accuracy	0.05 percent plus 2 counts
Frequency Range	99.999 Hz to 9.9999 MHz
Frequency Accuracy	0.005 percent plus 3 counts
Capacitance Range	10 nF to 100 mF
Capacitance Accuracy	1 percent plus 5 counts
Temperature Thermocouple	K type
Temperature Range	minus 200 C to 1372 C
Temperature Accuracy	1 percent plus 1 C
Safety Category	CAT III 1000 V / CAT IV 600 V
Ingress Protection	IP67
Battery Life Typical	800 hours
Battery Type	4 × 1.5 V AA
Dimensions HxWxD	218 × 96 × 59 mm
Operating Temperature	minus 20 C to 55 C

PARAMETER	VALUE
Bandwidth	30 kHz

U1281A Specifications

PARAMETER	VALUE
Agilent Keysight U1281A Handheld Digital Multimeter	Overview
Key Features	IP67 dust and immersion rating
Optional IR Bluetooth adapter	800 hour typical battery life
Technical Specifications	Display Counts: 60000
Notes	From Keysight U1280 Series Handheld Digital Multimeters data sheet comparison for U1281A.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	minus 20 C to 55 C
Operating Temperature	minus 20 C to 55 C

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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AC Current Accuracy Class	0.6 percent plus 25 counts
Resistance Range	600 ohm to 60 MOhm
Resistance Accuracy	0.05 percent plus 2 counts
Frequency Range	99.999 Hz to 9.9999 MHz
Frequency Accuracy	0.005 percent plus 3 counts
Capacitance Range	10 nF to 100 mF
Capacitance Accuracy	1 percent plus 5 counts
Temperature Thermocouple	K type
Temperature Range	minus 200 C to 1372 C
Temperature Accuracy	1 percent plus 1 C
Safety Category	CAT III 1000 V / CAT IV 600 V
Ingress Protection	IP67
Battery Life Typical	800 hours
Battery Type	4 x 1.5 V AA
Dimensions HxWxD	218 x 96 x 59 mm
Operating Temperature	minus 20 C to 55 C

Notes

From Keysight U1280 Series Handheld Digital Multimeters data sheet comparison for U1281A.

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 ·
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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.