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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U1241B Handheld Digital Multimeter

Agilent Keysight U1241B Handheld Digital Multimeter The Agilent/Keysight U1241B is a 10000-count true-RMS handheld DMM with 0.09 percent basic DCV accuracy and CAT III 1000 V / CAT IV 600 V protection. OEM U1240B Series tables list DCV from 1000.0 mV to 1000.0 V, resistance to 100 MOhm, capacitance to 10 mF, frequency to 200 kHz, and K-type temperature from minus 40 C to 1000 C. Industrial maintenance voltage and current checks, switch-counter diagnostics, and field temperature measurements with TypeKprobes. The Agilent/Keysight U1241B is a 10000-count true-RMS handheld DMM with 0.09 percent basic DCV accuracy and CAT III 1000 V / CAT IV 600 V protection. OEM U1240B Series tables list DCV from 1000.0 mV to 1000.0 V, resistance to 100 MOhm, capacitance to 10 mF, frequency to 200 kHz, and K-type temperature from minus 40 C to 1000 C. Industrial maintenance voltage and current checks, switch-counter diagnostics, and field temperature measurements with TypeKprobes. Basic DCV Accuracy: 0.09 percent plus 5 counts on 1000 mV



MODEL

**Agilent / Keysight
U1241B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U1241B

LISTING

<https://aumictechlabs.com/products/u1241b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight U1241B is a 4-digit handheld digital multimeter designed for a variety of electrical and electronic measurement tasks. It has a 10,000-count display and true RMS AC

voltage and current measurements, making it suitable for troubleshooting and general-purpose testing in industrial and field service environments. The device is built to meet stringent safety standards, including CAT III 1000 V and CAT IV 600 V overvoltage protection. Technical Specifications Display: 10,000 counts Dual display capability 21-segment analog bar graph display Adjustable dual-intensity backlight Measurement Functions: DC Voltage (DCV) AC Voltage (ACV): True RMS DC Current (DCI) AC Current (ACI): True RMS Resistance Frequency Diode Test Audible Continuity Test K-Type Temperature Measurements Capacitance Measurement: up to 10 mF Switch/Relay Counter for glitch detection MIN/MAX/AVG Recording Data Hold (Refresh Hold) Null (Relative) Math Function Accuracy: Basic DC Voltage accuracy: 0.09% Ranges: DCV/ACV: 0.1 mV to 1000 V Resistance: 0.1 Ω to 100 M Ω AC Current (μ A/mA): 0.1 μ A to 1000 mA AC Current (A): 0.01 A to 10 A Frequency: 1 Hz to 200 kHz Capacitance: 0.1 nF to 10 mF Temperature: -40 °C to 1000 °C (Requires probe, not included) Input Protection: Voltage (COM Terminal): 1000 V RMS Diode (COM Terminal): 1000 V RMS, < 0.3 A short circuit current Current (μ A/mA Terminal): 440 mA/1000 V, 30 kA/fast-acting fuse Current (A Terminal): 11 A/1000 V, 30 kA/fast-acting fuse Temperature (+T1, -T1 Terminals): 1000 V RMS Overvoltage Protection: CAT III: 1000 V CAT IV: 600 V Safety Compliance: IEC/EN 61010-1 IEC/EN 61010-2-030 IEC/EN 61010-2-033 CAN/CSA-C22.2 No. 61010-1 CAN/CSA-C22.2 No. 61010-030 CAN/CSA-C22.2 No. 61010-033 UL Std. No. 61010-1 UL Std. No. 61010-030 UL Std. No. 61010-033 EMC Compliance: IEC 61326-1/EN 61326-1 CISPR11/EN55011 Group 1 Class A ICES/NMB-001 AS/NZS CISPR 11 Power Source: Four 1.5 V AAA alkaline batteries Interfaces and Connectivity * IR Connectivity: Requires U1179A IR connectivity bracket (optional accessory) for PC or mobile device logging. Bluetooth Connectivity: Available with the Keysight Remote Link solution and the U1117A Infrared (IR)-to-Bluetooth Adapter (optional accessory). Physical Characteristics * Housing: Vivid orange case. Tilt Stand: Usable for benchtop operation. Dimensions: (Refer to User's and Service Guide for detailed dimensions) Weight: (Refer to User's and Service Guide for detailed weight) Compatibility * Operating Systems: Compatible with PC and mobile devices for data logging when using the optional IR connectivity bracket or Bluetooth adapter. Accessories: Requires optional U1179A IR connectivity bracket for PC/mobile logging. Requires optional U1117A IR-to-Bluetooth Adapter for Bluetooth connectivity. Temperature measurement requires a probe (not included). Documentation * User's and Service Guide: Provides comprehensive details on features, functions, safety, service, and maintenance. Quick Start Guide: Assists in quickly familiarizing users with the features and interface of the multimeter. Datasheet: Available for the Keysight U1240 Series Handheld Digital Multimeters. Brochures: Include information on handheld tools and specific DMM models. Certificate of Calibration: Included with the instrument. Why Choose Aumictech for Agilent/Keysight U1241B? At Aumictech, we specialize in supplying high-end electrical test and measurement equipment. Whether you need solid troubleshooting tools, precise general-purpose testing instruments, or reliable solutions for field service, our team ensures the Agilent/Keysight U1241B delivers maximum performance for your application.

U1241B Characteristics / Specifications

PARAMETER	VALUE
Display Counts	10000
Basic DCV Accuracy	0.09 percent plus 5 counts on 1000 mV
DC Voltage Ranges	1000.0 mV to 1000.0 V
DC Voltage Accuracy 10 V And 100 V	0.09 percent plus 2 counts
DC Voltage Accuracy 1000 V	0.15 percent plus 5 counts
AC Voltage Bandwidth Class	40 Hz to 2 kHz
True RMS Mode	AC
DC Current Ranges	1000.0 uA to 10.000 A
DC Current Accuracy 1000 uA And 10000 uA	0.1 percent plus 3 counts
Resistance Maximum	100.00 MOhm
Resistance Accuracy Low Ranges	0.3 percent plus 3 counts
Capacitance Ranges	1000.0 nF to 10.000 mF
Capacitance Accuracy Low Ranges	1.2 percent plus 4 counts
Frequency Ranges	100.00 Hz to 1000.0 kHz effective to 200 kHz
Frequency Accuracy	0.03 percent plus 3 counts
Temperature Type K	minus 40 C to 1000 C
Temperature Accuracy	1 percent plus 1 C
Safety Category	CAT III 1000 V / CAT IV 600 V
Battery Life Typical	300 hours
Battery Type	4 × 1.5 V AAA
Dimensions HxWxD	193.8 × 92.2 × 58.0 mm
Weight With Batteries	450 g
Operating Temperature	minus 10 C to 55 C
Measuring Rate DCV	7 times per second

PARAMETER	VALUE
Bandwidth	Class: 40 Hz to 2 kHz

U1241B Specifications

PARAMETER	VALUE
Agilent Keysight U1241B Handheld Digital Multimeter	Overview
Applications	Industrial maintenance voltage and current checks, switch-counter diagnostics, and field temperature measurements with Type K probes.
Key Features	10000 count dual display
Technical Specifications	Display Counts: 10000
Notes	From Keysight U1240B Series Handheld Digital Multimeters data sheet (5989-7040) for U1241B.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	minus 10 C to 55 C
Operating Temperature	minus 10 C to 55 C
Measuring Rate DCV	7 times per second Notes From Keysight U1240B Series Handheld Digital Multimeters data sheet (5989-7040) for U1241B.

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 Counts	10000
Basic DCV Accuracy	0.09 percent plus 5 counts on 1000 mV
DC Voltage Ranges	1000.0 mV to 1000.0 V
DC Voltage Accuracy 10 V And 100 V: 0.09 percent plus 2 counts	
Specifications	
PARAMETER	VALUE
DC Voltage Accuracy 1000 V	0.15 percent plus 5 counts
AC Voltage Bandwidth Class	40 Hz to 2 kHz
True RMS Mode	AC
DC Current Ranges	1000.0 uA to 10.000 A
DC Current Accuracy 1000 uA And 10000 uA: 0.1 percent plus 3 counts	
Specifications	
PARAMETER	VALUE
Resistance Maximum	100.00 MOhm
Resistance Accuracy Low Ranges	0.3 percent plus 3 counts
Capacitance Ranges	1000.0 nF to 10.000 mF
Capacitance Accuracy Low Ranges	1.2 percent plus 4 counts
Frequency Ranges	100.00 Hz to 1000.0 kHz effective to 200 kHz
Frequency Accuracy	0.03 percent plus 3 counts
Temperature Type K	minus 40 C to 1000 C
Temperature Accuracy	1 percent plus 1 C
Safety Category	CAT III 1000 V / CAT IV 600 V
Battery Life Typical	300 hours
Battery Type	4 x 1.5 V AAA
Dimensions HxWxD	193.8 x 92.2 x 58.0 mm

PARAMETER	VALUE
Weight With Batteries	450 g
Operating Temperature	minus 10 C to 55 C
Measuring Rate DCV	7 times per second

Notes
From Keysight U1240B Series Handheld Digital Multimeters data sheet (5989-7040) for U1241B.

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.