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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U1242C Handheld Digital Multimeter

Agilent / Keysight U1242C Handheld Digital Multimeter The Keysight (Agilent) U1242C is a rugged handheld digital multimeter in the U1240C Series for industrial electrical and electronic maintenance. OEM U1240C family literature lists true RMS AC, temperature, and logging-oriented handheld features with CAT safety ratings. Industrial electrical maintenance, HVAC temperature checks, and field true-RMS troubleshooting. Instrument Family: Keysight U1240C Series The Keysight (Agilent) U1242C is a rugged handheld digital multimeter in the U1240C Series for industrial electrical and electronic maintenance. OEM U1240C family literature lists true RMS AC, temperature, and logging-oriented handheld features with CAT safety ratings. Industrial electrical maintenance, HVAC temperature checks, and field true-RMS troubleshooting. Instrument Family: Keysight U1240C Series Instrument Type: handheld digital multimeter



MODEL

**Agilent / Keysight
U1242C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U1242C

LISTING

<https://aumictechlabs.com/products/u1242c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight U1242C is a handheld digital multimeter designed for solid performance in challenging environments, offering advanced measurement capabilities for electronics troubleshooting and maintenance. This 4-digit multimeter has a 10,000-count dual display and

True RMS readings, providing enhanced precision and readability. Its durable construction, certified to IP67 for dust and water resistance, and ability to withstand drops up to 10 feet, make it suitable for demanding field applications. Technical Specifications Display: 4-digit, 10,000-count dual display Adjustable backlighting with two intensity levels Larger font size compared to previous models Measurement Functions: DC Voltage: 100 mV to 1000 V * Accuracy: 0.09% + 2 counts AC Voltage: 100 mV to 1000 V * Accuracy: 1% + 3 counts DC Current: 1000 μ A to 10 A * Accuracy: 0.1% + 2 counts AC Current: 1000 μ A to 10 A * Accuracy: 1% + 3 counts Resistance: 100 Ω to 100 M Ω * Accuracy: 0.2% + 2 counts Frequency: 100 Hz to 10 MHz * Accuracy: 0.02% + 1 count Capacitance: 1000 nF to 10 mF * Accuracy: 1% + 5 counts (for 1000 nF to 1000 μ F) * Accuracy: 1.2% + 5 counts (for 10 mF) Temperature: -200°C to 1372°C * Accuracy: 1% + 1°C * Includes J & K-Type temperature measurements * Dual and differential temperature measurement capabilities Continuity: With beeper and visual alerts (flashing backlight display) Diode Test: Yes Low Impedance (Low Z) Mode: Eliminates ghost voltage Non-Contact Voltage (NCV) Detection: Alerts of hot or live wires with audible and visual indicators Switch Counter: Detects intermittent failures in switches or relays Harmonic Ratio: Helps determine the presence of harmonics in AC signals Built-in Low Pass Filter: For accurate VFD troubleshooting Data Logging: Stores up to 2,000 readings Auto and manual data logging PC connectivity via IR-to-USB cable or Bluetooth (with optional U1117A adapter) Power: Powered by four 1.5 V AAA batteries Long battery life: up to 400 hours Reading Speed: 40 readings/second Safety and Environmental: Overvoltage Protection: CAT III 1000 V, CAT IV 600 V IP Rating: IP67 (dust and water resistant) Drop Test: Withstands drops up to 3 meters (10 feet) Operating Altitude: Up to 3000 m Operating Environment: Indoor use, low condensation area Physical: Dimensions: 198 × 96 × 57 mm Weight: 545 g Built-in LED Flashlight: For illuminated testing in dark environments Why Choose Aumictech for Keysight U1242C? At Aumictech, we specialize in supplying high-end test and measurement equipment. Whether you need to perform complex diagnostics, ensure system integrity, or require precise measurements in demanding conditions, our team ensures the Keysight U1242C delivers maximum performance for your application.

U1242C Characteristics / Specifications

PARAMETER	VALUE
Model	U1242C
Instrument Family	Keysight U1240C Series
Instrument Type	handheld digital multimeter
AC Measurement	True RMS
Display Class	backlit digital display
DC Voltage Function	yes
AC Voltage Function	yes
DC Current Function	yes
AC Current Function	yes
Resistance Function	yes
Continuity Diode	yes
Capacitance Function	yes
Frequency Function	yes
Temperature Function	yes
Safety Category Class	CAT III/CAT IV per datasheet
Battery Operation	yes
Form Factor	handheld
Brand Lineage	Agilent / Keysight
Connectivity Class	IR/USB family options where equipped
Operating Temperature Class	industrial handheld ambient
Ingress Protection Class	per U1240C datasheet
Data Log Class	family logging features
Faceplate Confirm Class	confirm exact ranges on U1242C datasheet
Operating temperature	Class: industrial handheld ambient

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: industrial handheld ambient
Operating Temperature	Class: industrial handheld ambient
Operating Temperature Class	industrial handheld ambient
Ingress Protection Class	per U1240C datasheet
Data Log Class	family logging features
Faceplate Confirm Class	confirm exact ranges on U1242C datasheet Notes From Keysight U1240C Series handheld DMM family literature for U1242C. Exact voltage/current range tables belong on the U1242C datasheet revision matching the unit.

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	U1242C
Instrument Family	Keysight U1240C Series
Instrument Type	handheld digital multimeter
AC Measurement	True RMS
Display Class	backlit digital display
DC Voltage Function	yes
AC Voltage Function	yes
DC Current Function	yes
AC Current Function	yes
Resistance Function	yes
Continuity Diode	yes
Capacitance Function	yes
Frequency Function	yes
Temperature Function	yes
Safety Category Class	CAT III/CAT IV per datasheet
Battery Operation	yes
Form Factor	handheld
Brand Lineage	Agilent / Keysight
Connectivity Class	IR/USB family options where equipped
Operating Temperature Class	industrial handheld ambient
Ingress Protection Class	per U1240C datasheet
Data Log Class	family logging features
Faceplate Confirm Class	confirm exact ranges on U1242C datasheet
Notes	
From Keysight U1240C Series handheld DMM family literature for U1242C. Exact voltage/current range tables belong on the U1242C datasheet revision matching the unit.	

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>

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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.