

Keysight U1240C Series Handheld Digital Multimeters

Perform test confidently and efficiently over a longer period of time!

Keysight Technologies, Inc.'s U1240C series handheld digital multimeters (DMMs) is a strong and solid tool that helps you work efficiently. Certified to IP 67 and capable to withstand a 3-meter (10 feet) drop to suit harsh working environments, these durable DMMs can even work longer for you with up to 400 hours of battery life. Better yet, you can optimize productivity with unique data logging functionality designed to run seamlessly with the DMM. Confidence and efficiency - everything you need to get the job done.

1. 10,000-count display
2. Data logging capability
3. Harmonics ratio ¹
4. Z_{LOW} (low input impedance) ¹
5. Dust and water protection with IP 67 ratings
6. T1 – T2 differential temperature measurement ¹
7. Vsense ¹ red LED indicator for non-contact voltage detection
8. Ease viewing with display backlight or built-in flashlight
9. Broad range of measurement functions: voltage, current, frequency, capacitance, resistance, continuity, diode test and temperature
10. CAT IV 600 V and CAT III 1000 V overvoltage protection

1. U1242C only

Features

- Basic DCV accuracy of 0.09%
- Longer battery life up to 400 hours
- Tested to withstand a 3-meter (10-ft) drop
- With Keysight Remote Link solution, add on U1117A Infrared (IR)- to-Bluetooth Adapter (optional accessory) to get instant wireless Bluetooth connection
- 2 years calibration cycle



Capture test readings easily with the Keysight handheld meter logger software



U1240C series is compatible with Keysight Remote Link solution to safely measure, view and log test measurements.



Easy access to the battery and fuse compartment

Product description

Part number	U1241C	U1242C	
Basic features			
Display resolution	10,000	10,000	
Auto/manual ranging	Yes	Yes	
Analog bar graph	Yes	Yes	
Backlight	Yes	Yes	
AC bandwidth	2 kHz	2 kHz	
True RMS	AC	AC (Switchable to average responding for AC measurement)	
Measurements			
Voltage DC	Range	100 mV to 1000 V	100 mV to 1000 V
	Accuracy	0.09 % + 2 cnts	0.09 % + 2 cnts
Voltage AC	Range	100 mV to 1000 V	100 mV to 1000 V
	Accuracy	1.0 % + 3 cnts	1.0 % + 3 cnts
Current DC	Range	1000 μ A to 10 A	1000 μ A to 10 A
	Accuracy	0.1 % + 2 cnts	0.1 % + 2 cnts
Current AC	Range	1000 μ A to 10 A	1000 μ A to 10 A
	Accuracy	1 % + 3 cnts	1 % + 3 cnts
Resistance	Range	1000 Ω to 100 M Ω	100 Ω to 100 M Ω
	Accuracy	0.2 % + 2 cnts	0.2 % + 2 cnts
Frequency	Range	100 Hz to 10 MHz	100 Hz to 10 MHz
	Accuracy	0.02 % + 1 cnts	0.02 % + 1 cnts
Capacitance	Range	1000 nF to 10 mF	1000 nF to 10 mF
	Accuracy	1 % + 5 cnts	1 % + 5 cnts
Temperature (K-type thermocouple)	Range	-200 $^{\circ}$ C to 1372 $^{\circ}$ C	-200 $^{\circ}$ C to 1372 $^{\circ}$ C
	Accuracy	1 % + 1 $^{\circ}$ C	1 % + 1 $^{\circ}$ C
Continuity with beeper	Yes	Yes	
Diode test	Yes	Yes	
Data management			
Min/Max recording	Yes	Yes	
Display hold	Yes	Yes	
Auto hold	Yes	Yes	
Null	Yes	Yes	
PC-connectivity	Infrared (IR)-USB; IR- <i>Bluetooth</i> (optional with U1117A)	Infrared (IR)-USB; IR- <i>Bluetooth</i> (optional with U1117A)	
Special features			
Harmonic ratio		Yes	
Vsense: Non-contact voltage detect		Yes	
Z _{LOW} - Low impedance mode		Yes	
Low pass filter		Yes	

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Product description (Continued)

Part number	U1241C	U1242C
Safety and regulatory		
Over-voltage safety protection	CAT III 1000 V / CAT IV 600 V	CAT III 1000 V / CAT IV 600 V
EN/IEC 61010-2-030: 2010 compliance	Yes	Yes
EN/IEC 61010-1: 2010 compliance	Yes	Yes
General		
Operating temperature	-20 $^{\circ}$ C to 55 $^{\circ}$ C 0 % to 80 % R.H.	-20 $^{\circ}$ C to 55 $^{\circ}$ C 0 % to 80 % R.H.
Battery (included)	4 x 1.5 V AAA	4 x 1.5 V AAA
Battery life	400 hours	400 hours
Warranty	3-year	3-year
Calibration	One year, or; Two years (with 1.5 times of one year specification)	One year, or; Two years (with 1.5 times of one year specification)
Dimensions (H x W x D)	198 x 96 x 57 mm	198 x 96 x 57 mm

Recommended accessories

Part number	Description
U1595A	Rugged carrying case for handheld digital multimeters
U1174A	Soft carrying case
U1171A	Magnetic hanging kit
U1176A	LED flash light

Standard shipped accessories

- Test leads (red and black)
- U1173B infrared (IR)-to-USB cable
- Four AAA batteries
- Quick start guide
- Certificate of calibration

Recommended software

Keysight handheld meter logger software

Download for FREE now, visit:

www.keysight.com/find/hhmeterlogger

For more information, go to:

www.keysight.com/find/U1242C



Three-Year Warranty

www.keysight.com/find/ThreeYearWarranty

Keysight's commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.



Keysight Assurance Plans

www.keysight.com/find/AssurancePlans

Up to five years of protection and no budgetary surprises to ensure your instruments are operating to specification so you can rely on accurate measurements.