

U1280 Series handheld digital multimeters

Gain the confidence to achieve trustworthy measurements thanks to the precision, accuracy and repeatability of the Keysight U1280 series handheld digital multimeters (DMM). Get the precise measurements you'd need with 60,000-count display resolution and 0.025% accuracy. With the Handheld Meter Logger software, swiftly capture individual measurements, generate reports and log trends with the touch of a button. Plus, with up to 800 hours of battery life, you can count on your DMM to perform when you need it.

Features

- 60,000-count dual display
- Up to 0.025% basic DCV accuracy
- Longer battery life up to 800 hours
- Certified to IP 67 for water and dust protection
- Tested to withstand a 3-meter (10-ft) drop
- CAT IV 600 V / CAT III 1000 V overvoltage protection
- Built-in Vsense¹ for non-contact voltage detection
- Square wave output¹ for generating pulse width modulation (PWM) signal
- Frequency counter¹
- Low pass filter¹
- For Keysight Remote Link solution, add on optional U1117A Infrared (IR)-to-Bluetooth adapter to get instant wireless Bluetooth connection

1. U1282A only



Specifications of the U1280C Series digital multimeters

		U1281A	U1282A
Basic features			
Display resolution		60,000 ★	60,000 ★
Auto/manual ranging		Yes	Yes
Analog bar graph		Yes	Yes
Backlight		Yes ★	Yes ★
AC bandwidth		30 kHz	100 kHz
True RMS		AC + DC	AC + DC
Measurements			
Voltage DC	Range	60 mV to 1000 V	60 mV to 1000 V
	Accuracy	0.025% + 5 cnts	0.025% + 5 cnts
Voltage AC	Range	60 mV to 1000 V	60 mV to 1000 V
	Accuracy	0.3% + 25 cnts	0.3% + 25 cnts
Current DC	Range	600 μA to 10 A	600 μA to 10 A
	Accuracy	0.05% + 5 cnts	0.05% + 5 cnts
Current AC	Range	600 μA to 10 A	600 μA to 10 A
	Accuracy	0.6% + 25 cnts	0.6% + 25 cnts

★ Represents key specifications/features For complete specifications, please refer to data sheet 5992-0847EN

Specifications of the U1280C Series digital multimeters, continued

	U1281A	U1282A	
Measurements, continued			
Resistance	Range	600 Ω to 60 MΩ	60 Ω to 600 MΩ
	Accuracy	0.05% + 2 cnts	0.05% + 2 cnts
Frequency	Range	99.999 Hz to 9.9999 MHz	99.999 Hz to 9.9999 MHz
	Accuracy	0.005% + 3 cnts	0.005% + 3 cnts
Capacitance	Range	10 nF to 100 mF	10 nF to 100 mF
	Accuracy	1% + 5 cnts	1% + 5 cnts
Temperature (K-type thermocouple)	Range	-200 to 1372 °C	-200 to 1372 °C
	Accuracy	1% + 1 °C	1% + 1 °C
Continuity with beeper and LED light	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-Bluetooth (optional with U1117A)	Infrared (IR)-USB; IR-Bluetooth (optional with U1117A)	
Special features			
Square wave output		Yes ★	
Vsense: non-contact voltage detect		Yes ★	
Frequency counter		Yes ★	
Low pass filter		Yes ★	
Safety and regulatory			
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			
IP rating	IP 67 ★	IP 67 ★	
Drop test	3 meters (10 ft) ★	3 meters (10 ft) ★	
Operating temperature	-20 to 55 °C	-20 to 55 °C	
	0 to 80% R.H	0 to 80% RH	
Battery (included)	4 x 1.5 V AA	4 x 1.5 V AA	
Battery life	800 hours ★	800 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)	

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Web link

www.keysight.com/find/handheldmm

How to?

Maintenance of electronic factory equipment and process line

<http://literature.cdn.keysight.com/litweb/pdf/5992-1112EN.pdf>