

Agilent U1270 series Handheld Digital Multimeters

Shaped to fit, tailored to perform, built to last

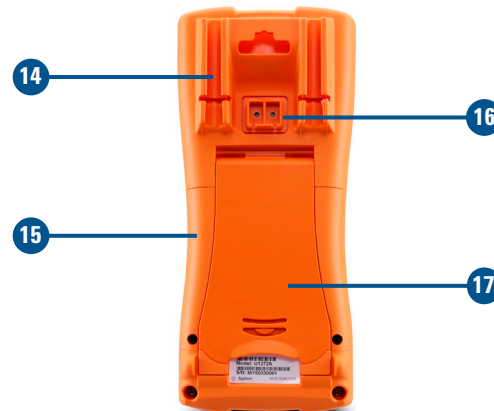
Water and dust resistant. Grip-friendly and feature-packed. That's what you get with an Agilent U1270 series handheld DMM.

Designed especially to fulfill the needs of industrial handheld users today, Agilent has reinvented the industrial handheld DMM to provide:

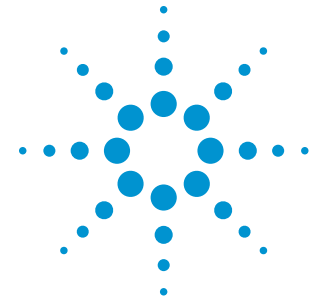
- Feature sets that meet traditional industrial requirements and improve productivity and safety
- Better grip
- Dust and water resistant casing (certified to IP 54)
- Both visual and audible continuity indication in noisy environments
- Easy access to fuse for simplified maintenance
- Large knob and buttons
- Easy connectivity to PC and internal memory for data logging



Front panel



Back panel



Front Panel

1. **Backlight Alert** flashes the backlight to provide visual indication in continuity test
2. Large buttons
3. **Peak detect** records transients as fast as 250µs
4. **Low Pass Filter (LPF)** removes unwanted high frequency signals
5. **Z_{LOW}**** provides additional low impedance modes to eliminate stray voltages
6. **Qik-V*** allows AC+DC measurement to quickly check for presence of voltage
7. Dual display
8. 30,000 counts resolution
9. **Smart Ohm**** removes residual voltage of up to 1000 mV
10. **Auto diode**** automatically determines diode polarity
11. Temperature measurement: J type T/C -200 °C to 1200 °C**, K type T/C -200 °C to 1732 °C
12. AC + DC capability**
13. Large knob for ease of use

Back Panel

14. Probe holder
15. Slim, ergonomic design for better grip
16. IR-USB connectivity with optional IR-USB cable
17. Easy fuse and battery access from battery cover

* For U1271A only

** For U1272A only



Quick Fact Sheet

Product Specifications

	U1271A	U1272A	
Basic Features			
Display resolution	30,000	30,000	
Auto/manual ranging	√	√	
Analog bar graph	√	√	
Backlight	√	√	
AC bandwidth	20 kHz	100 kHz	
True RMS	AC	AC + DC	
Measurements			
Voltage DC	Range	300 mV to 1000 V	30 mV to 1000 V
	Accuracy	0.05% + 2 cnts	0.05% + 2 cnts
Voltage AC	Range	300 mV to 1000 V	30 mV to 1000 V
	Accuracy	0.7% + 20 cnts	0.6% + 20 cnts
	Bandwidth	45 Hz to 20 kHz	45 Hz to 100 kHz
Current DC	Range	300 μA to 10 A	300 μA to 10 A
	Accuracy	0.2% + 5 cnts	0.2% + 5 cnts
Current AC	Range	300 μA to 10 A	300 μA to 10 A
	Accuracy	0.9% + 25 cnts	0.6% + 25 cnts
	Bandwidth	45 Hz to 2 kHz	45 Hz to 2 kHz
Resistance	Range	300 Ω to 100 MΩ	30 Ω to 300 MΩ
	Accuracy	0.2% + 5 cnts	0.2% + 5 cnts
Frequency	Range	99.999 Hz to 999.99 kHz	99.999 Hz to 999.99 kHz
	Accuracy	0.005% + 5 cnts	0.005% + 5 cnts
Capacitance	Range	10 nF to 10 mF	10 nF to 10 mF
	Accuracy	1% + 2 cnts	1% + 2 cnts
Temperature	Range	K: -200 °C to 1372 °C	K: -200 °C to 1372 °C J: -200 °C to 1200 °C
	Accuracy	1% + 1°C	1% + 1°C
Continuity with beeper	√	√	
Diode test	√	√	

	U1271A	U1272A
Data Management		
Min/max recording	√	√
Display hold	√	√
Peak hold	√	√
Manual datalogging	200 points	10,000 points
Null	√	√
PC connectivity	IR-USB	IR-USB
% scale of 4-20 mA	√	√
Special Features		
Beep + backlight alert	√	√
Low pass filter (LPF)	√	√
Z _{low} , low impedance mode	–	√
Smart Ω	–	√
Qik-V	√	–
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 61010-1:2001 compliance	√	√
General		
Battery	4x AAA	4x AAA
Operating temperature	-20 °C to 55 °C, 0 to 80% R.H	-20 °C to 55 °C, 0 to 80% R.H
Standard accessories	Standard test leads, test probes with 19-mm and 4-mm tips, K-type thermocouple and adapter, 4x AAA batteries, Certificate of Calibration, test report, Quick Start Guide	Standard test leads, test probes with 19-mm and 4-mm tips, K-type thermocouple and adapter, 4x AAA batteries, Certificate of Calibration, test report, Quick Start Guide

Recommended accessories



U1171A
Magnetic hanging kit



U1174A
Soft carrying case



U1176A
LED flashlight



U1173A
IR-USB cable



U1180A
Thermocouple adapter/
lead kit

Recommended service options

Additional two years of Return-to-Agilent warranty
 Additional two years of Return-to-Agilent calibrations
 For more information go to www.agilent.com/find/removealldoubt

