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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U1282A Handheld Digital Multimeter

Agilent Keysight U1282A Handheld Digital Multimeter The Agilent/Keysight U1282A is the higher-feature IP67 60000-count U1280 Series meter with Vsense non-contact voltage detection, square-wave output, J/K thermocouples, and resistance to 600 MOhm. OEM tables list the same 0.025 percent basic DCV accuracy, 100 kHz AC bandwidth, and 800-hour battery life as the industrial sealed platform. Industrial electrical safety checks with Vsense, harsh-environment logging, and electronics troubleshooting needing extended ohms and square-wave stimulus. The Agilent/Keysight U1282A is the higher-feature IP67 60000-count U1280 Series meter with Vsense non-contact voltage detection, square-wave output, J/K thermocouples, and resistance to 600 MOhm. OEM tables list the same 0.025 percent basic DCV accuracy, 100 kHz AC bandwidth, and 800-hour battery life as the industrial sealed platform. Industrial electrical safety checks with Vsense, harsh-environment logging, and electronics troubleshooting needing extended ohms and square-wave stimulus. Square wave output and J/K thermocouple support



MODEL

**Agilent / Keysight
U1282A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U1282A

LISTING

<https://aumictechlabs.com/products/u1282a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight U1282A is a rugged, 4.5-digit handheld digital multimeter engineered for demanding industrial environments. It has a high-resolution 60,000-count dual display and has a basic DC voltage accuracy of 0.025%. This device is built to withstand harsh conditions, featuring an IP67 rating for water and dust protection and drop-tested to withstand a 10-foot (3-meter) impact. The U1282A provides extensive measurement capabilities, including voltage, current, frequency, capacitance, resistance, continuity, diode testing, and temperature. Additional features enhance its utility for troubleshooting and maintenance, such as a built-in low-pass filter for variable frequency drive (VFD) analysis, a non-contact voltage detection (Vsense) feature with visual and audible alerts, a frequency counter, and a square wave output. With up to 800 hours of battery life, this multimeter ensures prolonged operational uptime.

Technical Specifications

Display: 60,000-count dual display 4.5-digit resolution Adjustable display refresh rate: 5 or 40 times/second Fast speed (40 Hz) reduces resolution to 6,000 counts Bargraph with range indication

Accuracy: Basic DC Voltage Accuracy: 0.025% Basic AC Voltage Accuracy: 0.3% + 25 Basic DC Current Accuracy: 0.05% + 5 Basic AC Current Accuracy: 0.6% + 25

Measurement Functions: Voltage (AC/DC) Current (AC/DC) Resistance Capacitance Frequency Continuity (with visual and audio alerts) Diode Test Temperature (J & K-type thermocouples supported) dBm measurement with configurable reference impedance PWM signal generation (Square wave output)

Advanced Features: Vsense: Non-contact voltage detection with audible and visual alerts Low Pass Filter (LPF): For accurate VFD troubleshooting Frequency Counter: Input sensitivity varies with RMS level, typically from 0.4 Hz to 1.8 MHz Data Logging: * 10,000-point memory * Manual logging (button press or remote switch probe) * Interval logging (1 to 99,999 seconds) * Event logging (triggers on hold, value change, min/max, or peak) * Auto power-off is disabled during logging AutoHold: Triggers when reading deviates beyond a set count Smoothing Mode: For stable readings from noisy signals, with configurable time Square Wave Output: Default 600Hz at 50% duty cycle, adjustable frequency and duty cycle Programmability: Via IR interface for remote operation and integration into automated test systems Remote Switch Probe Terminal: For manual logging and measurement control Secondary Display: Can show meter temperature or other selected measurements Beep Frequency Adjustment: Configurable from 3200 Hz to 4267 Hz or disable tones Continuity Alert Options: Beeper, LED, both, or none Input Impedance (mV ranges): Selectable between 10 MΩ and >1000 MΩ (high-Z) Electrical Protection: CAT III 1000 V CAT IV 600 V Overload protection in μA/mA: 0.44A/1000V fuse (10×38mm) Overload protection in A: 11A/1000V fuse (10×38mm) Continuous current measurement up to 440 mA, up to 600 mA for 20 hours maximum

Interfaces: Infrared (IR)-to-USB cable included for PC connectivity Optional IR-to-Bluetooth adapter (U1117A) for wireless connectivity Keysight Remote Link solution compatibility

Physical: Ingress Protection: IP67 certified (water and dust resistant) Drop Test: Tested to withstand a 10-foot (3-meter) drop Battery Life: Up to 800 hours Power Source: Four standard 1.5 V AA batteries Dimensions: 220 × 101 × 58 mm Weight: 703g (without accessories, with batteries) Operating Altitude: Up to 3000 m Compatibility: Compatible with Keysight Handheld Meter Logger Software Compatible with Keysight Remote Link solution

Why Choose Aumictech for Keysight U1282A? At Aumictech, we specialize in supplying high-end test and measurement equipment. Whether you need reliable industrial-grade multimeters, advanced troubleshooting tools, or ruggedized field instruments, our team ensures the Keysight U1282A delivers maximum performance for your application.

U1282A Characteristics / Specifications

PARAMETER	VALUE
Display Counts	60000
Basic DCV Accuracy	0.025 percent plus 5 counts
DC Voltage Range	60 mV to 1000 V
AC Voltage Range	60 mV to 1000 V
AC Voltage Accuracy Class	0.3 percent plus 25 counts
AC Bandwidth	100 kHz
True RMS Mode	AC plus DC
DC Current Range	600 uA to 10 A
DC Current Accuracy	0.05 percent plus 5 counts
AC Current Accuracy Class	0.6 percent plus 25 counts
Resistance Range	60 ohm to 600 MOhm
Resistance Accuracy	0.05 percent plus 2 counts
Frequency Range	99.999 Hz to 9.9999 MHz
Frequency Accuracy	0.005 percent plus 3 counts
Capacitance Range	10 nF to 100 mF
Capacitance Accuracy	1 percent plus 5 counts
Temperature Thermocouple	J andKtype
Temperature Range	minus 200 C to 1372 C
Temperature Accuracy	1 percent plus 1 C
Safety Category	CAT III 1000 V / CAT IV 600 V
Ingress Protection	IP67
Battery Life Typical	800 hours
Dimensions HxWxD	218 × 96 × 59 mm
Operating Temperature	minus 20 C to 55 C
Bandwidth	100 kHz

U1282A Specifications

PARAMETER	VALUE
Agilent Keysight U1282A Handheld Digital Multimeter	Overview
J and K thermocouple support	Resistance to 600 MOhm
Technical Specifications	Display Counts: 60000
Notes	From Keysight U1280 Series Handheld Digital Multimeters data sheet comparison for U1282A.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	minus 20 C to 55 C
Operating Temperature	minus 20 C to 55 C

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	60000
Basic DCV Accuracy	0.025 percent plus 5 counts
DC Voltage Range	60 mV to 1000 V
AC Voltage Range	60 mV to 1000 V
AC Voltage Accuracy Class	0.3 percent plus 25 counts
AC Bandwidth	100 kHz
True RMS Mode	AC plus DC
DC Current Range	600 uA to 10 A
DC Current Accuracy	0.05 percent plus 5 counts
AC Current Accuracy Class	0.6 percent plus 25 counts
Resistance Range	60 ohm to 600 MOhm
Resistance Accuracy	0.05 percent plus 2 counts
Frequency Range	99.999 Hz to 9.9999 MHz
Frequency Accuracy	0.005 percent plus 3 counts
Capacitance Range	10 nF to 100 mF
Capacitance Accuracy	1 percent plus 5 counts
Temperature Thermocouple	J andKtype
Temperature Range	minus 200 C to 1372 C
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Dimensions HxWxD	218 x 96 x 59 mm
Operating Temperature	minus 20 C to 55 C
Notes	
From Keysight U1280 Series Handheld Digital Multimeters data sheet comparison for U1282A.	

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 ·
30-day returns
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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.