

Digital Multimeters

CATALOG



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Keysight Benchtop Digital Multimeters

One family. Three performance grades. 4 classes.



ESSENTIAL

DM5-class

- 5.5 Digits of resolution
- 150 ppm Basic DCV accuracy



ADVANCED

DM6, DM7-class

- 6.5 to 7.5 Digits of resolution
- 16 to 75 ppm Basic DCV accuracy



PRO

DM8-class

- 8.5 Digits of resolution
- 4 ppm Basic DCV accuracy

Introduction

Keysight Digital Multimeters — from product characterization to troubleshooting and maintenance

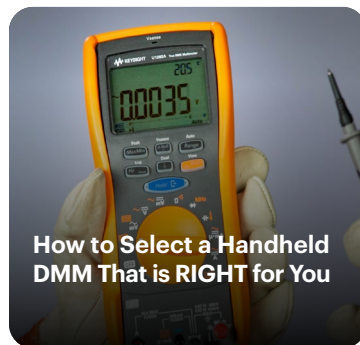
Keysight benchtop, modular, and portable digital multimeters (DMMs) are now offered in five capability classes across three performance grades. Essential, our entry-level DMM, includes the DM5-class, providing 5.5 digits of resolution. Advanced includes the DM6- and DM7-class, extending up to 7.5 digits of resolution. Pro includes the DM8-class, delivering 8.5 digits of resolution and increased sampling rate. Portable includes the DM4-class, offering convenience in the palm of your hand. A comprehensive library of [digital multimeter resources](#) are available to help you find the performance grade and class best suited to your lab.



Ensure safe and accurate measurements

The digital multimeter is a critical tool for engineers to diagnose issues, validate designs, and ensure products meet the highest standards. Keysight's courses offer comprehensive training, ranging from fundamental concepts to complex applications, equipping you with the knowledge to understand DMMs and use them safely for enhanced measurement accuracy.

Here are a few examples of the resources you will find to help you select the digital multimeter that is right for you:



Benchtop Digital Multimeters

Keysight benchtop digital multimeters enable you to characterize and debug devices, perform design validation, monitor key interfaces of subsystems during design, and ensure your products are properly tested to meet specifications. Select the DMM you need below based on digits of resolution, accuracy, memory, interface, and maximum reading rate. Explore our wide range of benchtop digital multimeters from Essential to Pro performance grades to find the one that is right for your application.



Essential
DM5-class



Advanced
DM6, DM7-class



Pro
DM8-class

Digits of resolution	5.5	6.5, 7.5	8.5
Basic DCV accuracy	150 ppm	16 to 75 ppm	4 ppm
Memory	5,000 readings	Up to 2M readings	148,000 readings
Interface	USB, LAN	USB, LAN, GPIB	GPIB
Maximum reading rate	110 readings/s	Up to 50,000 readings/s	100,000 readings/s
Brands included	EDU34450A 34450A	34460A-34470A DM34460A-DM34461A	3458A

Explore

Explore

Explore

Essential Benchtop Digital Multimeter

Basic measurement capabilities with remote connectivity

Keysight DM5-class Essential DMMs include the EDU34450A and 34450A. Essential DMMs are affordable, entry-level, and ideal for an education lab. It features a large 7-inch, dual-measurement color display for easy viewing and simultaneous output monitoring. With 5.5 digits of resolution, our Essential DMM measures a broad range of signals, including DC voltage, DC current, true root mean square (RMS) AC voltage, AC current, two- and four-wire resistance, frequency, continuity, diode test, temperature, and capacitance. It comes with remote control and data logging software for real-time monitoring, capturing, and visualization crucial for testing and validation of your applications. Get started with precise and affordable measurements — request a quote or order a Keysight Essential DMM today.

[Learn more about our Essential benchtop digital multimeter](#)

Trigger and capture

Capture fast-changing signals with enhanced input trigger settings and up to 5,000 samples in memory for post-analysis.

Enhanced dual display

Large 7-inch, dual-measurement color display renders a broad range of signals with built-in trend and statistics charting tools.

Remote connectivity

Connection, remote control, and data logging via LAN, USB, or SCPI, ideal for real-time monitoring, analysis, and troubleshooting.

Intuitive front panel

Quickly set up and perform measurement tasks with intuitive soft and function keys, which light up to indicate the parameters measured.

Class	Included Brands	Range of Performance Specifications				
		Digits of Resolution	Basic DCV Accuracy	Memory	Interface	Maximum Reading Rate
DM5	EDU34450A and 34450A	5.5	150 ppm	5,000 readings	USB, LAN	110 readings/s

Buy / Get quote

Advanced Benchtop Digital Multimeters

Sophisticated design and troubleshooting

Keysight Advanced DMMs come in two classes. The DM6-class includes the 34460A-34465A and DM34460A-DM34461A, and the DM7-class includes the 34470A. Advanced DMMs go beyond our Essential models, offering 6.5- and 7.5-digit resolution for enhanced accuracy, reduced noise, and minimized measurement errors. These DMMs feature improved triggering and digitizing capabilities, with a sampling rate of up to 50k samples per second to measure fast-changing signals like a clock pulse in a high-frequency circuit or an unwanted transient noise signal. Choose from our popular configurations or customize one to meet your specific application needs.

 [Learn more about our Advanced benchtop digital multimeters](#)

Fast reading rate

Provides real-time measurements to detect voltage fluctuations, unstable signals, or current irregularities, indicators of faults or performance problems.

Low current measurement

Analyze dynamic current consumption of low-power devices with 1 microamp range and picoamp resolution.

Triggering and digitizing

Enhanced triggering and digitizing features enable you to capture and isolate specific events and troubleshoot fast-changing signals.

Autocalibration

Self-calibrates regularly to reduce errors due to temperature and internal drifts, ensuring accuracy for long-duration characterization tests.

Class	Included Brands	Range of Performance Specifications				
		Digits of Resolution	Basic DCV Accuracy	Memory	Interface	Maximum Reading Rate
DM6	34460A-34465A DM34460A-DM34461A	6.5	30 ppm to 75 ppm	1,000 readings to 2,000,000 readings	LAN, USB, GPIB (optional)	300 readings/s to 50,000 readings/s
DM7	34470A	7.5	16 ppm	50,000 readings	LAN, USB, GPIB (optional)	50,000 readings/s

[View popular configurations](#)

Pro Benchtop Digital Multimeter

Metrology-grade performance

Keysight DM8-class Pro DMMs include the 3458A. Pro DMMs deliver 8.5-digit precision, exceptional DC voltage (DCV) linearity, and minimal internal noise. With a sampling rate twice that of our Advanced DMMs, it captures up to 100,000 readings per second, making it well-suited for high-throughput manufacturing environments. Its metrology-grade accuracy ensures precise measurements, making it an ideal choice as a metrology standard in calibration labs, research labs, and demanding applications like power electronics, switching power supplies, and semiconductor testing. Request a quote or order a Keysight Pro DMM today.

[Learn more about our Pro benchtop digital multimeter](#)

Metrology-grade precision

Calibration-lab precision measurements with 8.5-digit resolution and an extremely low 0.01 ppm RMS internal noise.

High-speed measurements

Programmable integration speed up to 100,000 readings per second ensure high-throughput in manufacturing test.

High accuracy, reliability

DCV accuracy up to 4 ppm per year and 0.1 ppm DCV linearity ensure precise and consistent measurements.

High-resolution digitizing

Provides 24-bit digitizer resolution, 12 MHz bandwidth, and a sample rate of 100,000 samples per second.

Class	Included Brands	Range of Performance Specifications				
		Digits of Resolution	Basic DCV Accuracy	Memory	Interface	Maximum Reading Rate
DM8	3458A	8.5	4 ppm	148,000 readings	GPIB	100,000 readings/s

Buy / Get quote

Portable Digital Multimeters

Trustworthy measurements in harsh working environments

Keysight DM4-class portable DMMs include the U1200 Handheld DMMs. Portable DMMs are designed to withstand harsh working conditions, improve safety, and offer convenience in the palm of your hand, whether you are troubleshooting electronics or performing machinery installation and maintenance. Equipped with smart features like an integrated frequency counter and overvoltage protection, our portable DMMs help you quickly detect issues and obtain accurate measurements in the field. Explore our most popular models to find the one that is best for your application.

[Learn more about our portable digital multimeters](#)

Long battery life

800 hours of battery life enable you to perform tests in the field without interruptions and downtime, ensuring reliable measurements and productivity.

Integrated frequency counter

Troubleshoot circuits with oscillating or varying signals, such as power supplies or communication devices, without the need for an additional frequency counter.

Overvoltage protection

Protect yourself and prevent damage to your DMM from high-voltage electrical hazards with CAT III 1000 V and CAT IV 600 V overvoltage protection.

Data logging capability

Continuously monitor and record measurements over an extended period, ideal for measuring voltage, current, or temperature fluctuations.



Digits of resolution	3.5, 4, 4.5
Maximum reading rate	5, 7, and 40 readings/s
Measurement functions	Base*, Base + temperature, Base + low pass filter mode, Base + frequency counter
Display type	LCD, OLED

[View popular configurations](#)

* “Base” measurement function consists of DCV and AC voltage (ACV), DC current (DCI) and AC current (ACI), 2-wire resistance, frequency, capacitance, diode test, and continuity test.

Modular Digital Multimeters

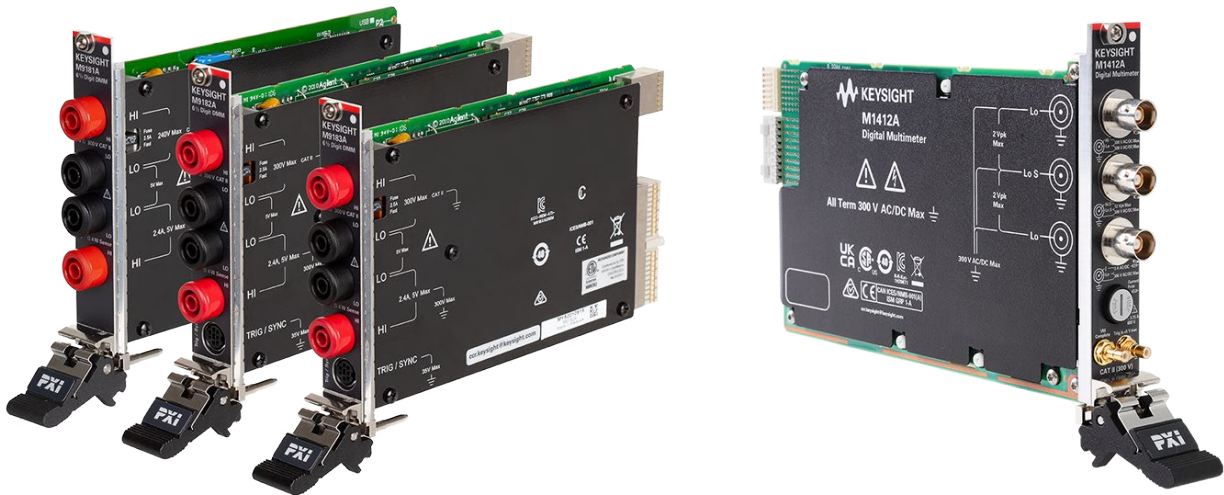
Benchtop capabilities in a compact form factor

Keysight modular digital multimeters offer the power of a benchtop DMM in a compact, flexible form factor, saving valuable rack space. Our top modular DMMs deliver equivalent DCV accuracy and faster reading rates than our Advanced models, all within high-density PXI / PXIe modules.

With four models ranging from 21 ppm to 90 ppm 1-year DCV accuracy, select the modular digital multimeter that is right for your application.

See catalog

Digits of resolution	6.5, 7.5
Basic DCV accuracy	21 ppm to 90 ppm
Maximum reading rate	150 to 60k readings/s



Software and Accessories

Find compatible software and accessories for your digital multimeter

Quickly interpret your measurements with DMM software that enables remote control and automation of your instrument. Combine your digital multimeter with the appropriate probes, cables, and connectivity kits to ensure accurate measurements for your specific application.



Intuitively control your digital multimeters to quickly understand your measurements and optimize your testing:

- lab management
- DMM application for instrument control
- power meter / sensors app

[Explore software](#)



Get more functionality out of your digital multimeters by pairing them with the right accessories, including:

- test probe leads
- alligator clips
- temperature sensors and probes
- probe adapters
- SMT grabbers
- PC connectivity cables
- fine tip probes
- cases and covers

[Explore accessories](#)

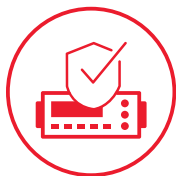
Keysight Support Services

Explore the services that are right for you

Keysight Support Services can reduce your learning curve, enhance your uptime, guarantee the accuracy of your testing equipment, and provide the expertise you require, precisely when and where you need it.

Maximize your instrument uptime, quickly optimize your test measurements, and get the answers you need at our fastest available times. KeysightCare curated support plans bundle critical services with prioritized response and turnaround times. **High-performance instruments include one year of KeysightCare Assured.**

Explore support services



Calibration

Ensure your test system performs to specification and meets local and global standards.



Repair

Restore equipment to original functionality and specifications with trained technicians.



KeysightCare

Innovate at speed with curated support plans and prioritized response and turnaround times.



Education

Make measurements quickly with eLearning and in-house, instructor-led training.



Keysight Support

Get 24x7 access to service requests, case management help, and technical articles.



Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at www.keysight.com.

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