

Keysight 3458A Digital Multimeter, 8½ Digit



The Keysight Technologies Inc. 3458A multimeter, recognized the world over as the standard in high performance DMMs, provides both speed and accuracy in the R&D lab, on the production test floor, and in the calibration lab. The Keysight 3458A is simply the fastest, most flexible, and most accurate multimeter ever offered by Keysight Technologies. In your system or on the bench, the Keysight 3458A saves you time and money with unprecedented test system throughput and accuracy.

Select a reading rate of 100,000 readings per second for maximal test throughput. Or achieve highest levels of precision with up to 8.5 digits of measurement resolution and 0.1 part per million transfer accuracy. Add this to the Keysight 3458A's simplicity of operation, and you have the ideal multimeter for your most demanding applications.

Key Features

- 8-ppm per year DC voltage reference stability, optional 4-ppm
- 0.1 ppm DC volts transfer accuracy
- Superior AC volts measurements
- System capabilities: 100,000 readings per second at 4½ digits
- 148K reading memory for prolonged data logging

Model	Type of measurement	Description
3458A	Voltage	AC and DC voltage
	Current	AC and DC current
	Resistance	2 & 4 wire resistance
	Frequency	Frequency and period
	Continuity	
	Diode	
	Temperature	

Key performance	
Max. resolution	8.5 digits
Max. reading speed	100,000 readings per second
Basic 1-year DCV accuracy	0.0008% (standard) 0.0004% (with option 002)
Calibration transfer accuracy	0.1 DC volts ppm
Linearity accuracy	0.1 DC volts ppm
Internal RMS noise	0.01 ppm
Memory	148 kB

General	
Interface type	GPIB
Included with 3458A	34137A test leads Certificate of calibration

Options and accessories

Model	Description
11059A	Kelvin probe set
11062A	Kelvin clip set
34137A	Deluxe test lead set for the 3458A
34308A	Thermistor kit
34330A	30 A current shunt
3458A-002	High stability 4 ppm per year reference
3458A-H01	Special 1000 vrms ac maximum input voltage
3458A-OGC	Precision calibration, intended for metrology use only
3458A-A6J	ANSI Z540-1-1994 Calibration
82350C	PCI high-performance GPIB interface card
82357B	USB/GPIB interface high-speed USB 2.0
E2308A	Thermistor temperature probe
E5810B	LAN/GPIB/USB gateway
10338A	GPIB cable

For more details on Keysight digital multimeters and ordering information see

“*Keysight 3458 Multimeter*” literature number [5965-4971E](#).

For a complete listing of available Keysight probes, see the *Keysight Probes and Accessories Selection Guide*.

For more information on Keysight attenuators, please visit:

www.keysight.com/find/3458A

To find a distributor in your area, go to: www.keysight.com/find/distributors

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