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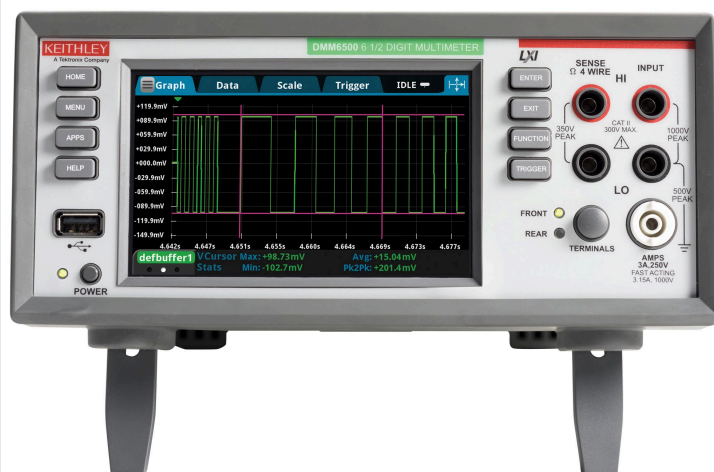
Data Sheet

August 2, 2026

KEITHLEY

Keithley DMM6500 6.5 Digit Multimeter with Graphical Touchscreen

Keithley DMM6500 6.5 Digit Multimeter with Graphical Touchscreen The DMM6500 provides a 6½-digit bench and system digital multimeter designed for precision measurement with a 5-inch color touchscreen, 15 measurement functions, and a 1 MS/s 16-bit digitizer for combined DMM and waveform capture capability. It supports USB, LAN, GPIB, and RS-232 remote interfaces with TSP scripting for automated test environments. Precision DC and AC voltage, current, and resistance measurement in R&D and production; low-level leakage and nano-volt characterization; high-speed transient capture via digitizer mode; multi-channel scanning with optional 2000-SCAN 10-channel card; automated bench and ATE via USB, LAN, GPIB, or RS-232 with TSP scripts. The DMM6500 provides a 6½-digit bench and system digital multimeter designed for precision measurement with a 5-inch color touchscreen, 15 measurement functions, and a 1 MS/s 16-bit digitizer for combined DMM and waveform capture capability. It supports USB, LAN, GPIB, and RS-232 remote interfaces with TSP scripting for automated test environments. Precision DC and AC voltage, current, and resistance measurement in R&D and production; low-level leakage and nano-volt characterization; high-speed transient capture via digitizer mode; multi-channel scanning with optional 2000-SCAN 10-channel card; automated bench and ATE via USB, LAN, GPIB, or RS-232 with



MODEL

**Keithley
DMM6500**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DMM6500

LISTING

<https://aumictechlabs.com/products/dmm6500-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keithley DMM6500 is a 6.5-digit bench and system multimeter engineered for precision measurement across research, development, manufacturing, and laboratory environments. Its 5-inch capacitive touchscreen delivers a graphical interface with pinch-and-zoom capability for intuitive data visualization. The instrument integrates 15 measurement functions: DC voltage, AC voltage, DC current, AC current, resistance, capacitance, frequency, temperature (RTD, thermistor, thermocouple), diode test, and digitizing - enabling comprehensive electrical characterization without external instrumentation. It features a 16-bit digitizer operating from 1 kS/s to 1 MS/s, storing up to 7,000,000 readings for transient capture and analysis. The DMM6500 delivers measurement rates to 21,000 readings per second with a minimum measurement time of 8.3 μ s (10 μ s at 50 Hz). DC voltage accuracy reaches 25 PPM (0.0025%) over one year and 30 PPM over two years.

Technical Specifications

Measurement Ranges

DC Voltage: 0.1 μ V to 1010 V AC Voltage: Up to 750 V DC Current: 10 pA to 10.1 A AC Current: Up to 10 A Resistance: 1 $\mu\Omega$ to 120 G Ω Capacitance: 0.1 pF to 120 μ F Temperature: RTD, thermistor, thermocouple Digitizer: 16-bit, 1 kS/s to 1 MS/s, 7,000,000 reading memory Display & Interface 5-inch multi-touch capacitive touchscreen, 800 $\times$ 480 resolution USB-TMC, LXI/Ethernet standard; optional GPIB, TSP-Link, RS-232

Key Features

6.5-digit resolution with 0.0025% basic DC voltage accuracy 1 MS/s, 16-bit digitizer for voltage and current transients Measurement rate: Up to 21,000 readings/second Scanner card slot supporting up to 10 switching channels (2-pole) or 5 channels (4-pole) Optional 2001-TCSCAN for 9-channel temperature scanning Graphical touchscreen with pinch-and-zoom data interaction

System Integration & Programming

Multiple programming modes accommodate existing test environments: SCPI (default), Keithley 2000 SCPI emulation, Keysight 34401A SCPI emulation, and TSP scripting. Driver support includes LabVIEW, IVI-C, IVI-COM, Keithley Test Script Builder, and KickStart software.

Typical Applications

R&D characterization, manufacturing test, bench measurement, system integration with multi-channel switching and temperature monitoring, and transient analysis requiring high-speed digitization.

Features & description

From manufacturer datasheet

Features

- 6½-digit resolution (to 1,000,000 count) • 5-inch color capacitive touchscreen • 15 measurement functions • 1 MS/s 16-bit digitizer mode • Sensitivity class: 100 nV (voltage), 10 pA (current) • DC voltage range 100 mV to 1000 V • Basic DCV accuracy approximately 0.0025 to 0.0030% (24 h class) • Optional Keithley 2000-SCAN 10-channel scanner card • USB, LAN, GPIB, and RS-232 remote interfaces • TSP scripting support

DMM6500 Characteristics / Specifications

PARAMETER	VALUE
Model	DMM6500
Manufacturer	Keithley (Tektronix)
Instrument Type	6½-Digit Bench/System Digital Multimeter
Display	5-inch color touchscreen
Resolution	6½ digits (to 1,000,000 count)
Measurement Functions	15
DC Voltage Range	100 mV to 1000 V
Basic DCV Accuracy	Approximately 0.0025 to 0.0030% (24 h class)
Digitizer Rate	1 MS/s, 16-bit
Voltage Sensitivity	100 nV class
Current Sensitivity	10 pA class
Remote Interfaces	USB, LAN, GPIB, RS-232
Scripting	TSP (Test Script Processor)
Alias	DMM6500 Standard Operating Conditions Allow warm-up per manufacturer guidance before precision measurements. Use appropriate sense leads and guard techniques for nano-volt and pico-amp ranges. Maintain stable ambient conditions for low-thermal EMF work.
Digitizer mode complements traditional DMM readings	confirm measurement function and range before interpreting captured waveforms. Optional 2000-SCAN card adds multi-channel scanning capability. Alias DMM6500.
Sensitivity class	100 nV (voltage), 10 pA (current)

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
Model	DMM6500
Manufacturer	Keithley (Tektronix)
Instrument Type	6½-Digit Bench/System Digital Multimeter
Display	5-inch color touchscreen
Resolution	6½ digits (to 1,000,000 count)
Measurement Functions	15
DC Voltage Range	100 mV to 1000 V
Basic DCV Accuracy	Approximately 0.0025 to 0.0030% (24 h class)
Digitizer Rate	1 MS/s, 16-bit
Voltage Sensitivity	100 nV class
Current Sensitivity	10 pA class

Optional Scanner: 2000-SCAN 10-channel card

Specifications

PARAMETER	VALUE
Remote Interfaces	USB, LAN, GPIB, RS-232
Scripting	TSP (Test Script Processor)
Alias	DMM6500

Standard Operating Conditions

Allow warm-up per manufacturer guidance before precision measurements. Use appropriate sense leads and guard techniques for nano-volt and pico-amp ranges. Maintain stable ambient conditions for low-thermal EMF work.

Operational Notes

Digitizer mode complements traditional DMM readings—confirm measurement function and range before interpreting captured waveforms. Optional 2000-SCAN card adds multi-channel scanning capability. Alias DMM6500.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.