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Data Sheet

August 13, 2026

KEITHLEY

Keithley DMM7512 Dual Channel 7.5 Digit Sampling Multimeter

Line: 100 to 240 VAC, 50/60 Hz, 165 VA max Form: 1U full rack, two measurement modules Not DMM7510: 3 A max current and 1U dual versus single graphical DMM7510 Specs from Keithley DMM7512 dual channel 7.5-digit sampling multimeter data sheet. Accuracies at the terminals after proper Rel; 20% overrange except 1% on 1000 V. Confirm both modules present and LAN/TSP-Link addressing. Form: 1U full rack, two measurement modules Not DMM7510: 3 A max current and 1U dual versus single graphical DMM7510 Specs from Keithley DMM7512 dual channel 7.5-digit sampling multimeter data sheet. Accuracies at the terminals after proper Rel; 20% overrange except 1% on 1000 V. Confirm both modules present and LAN/TSP-Link addressing.



MODEL

Keithley DMM7512

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DMM7512

LISTING

<https://aumictechlabs.com/products/dmm7512-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keithley DMM7512 is a dual-channel 7.5-digit sampling multimeter that integrates two independent DMM modules into a single 1U rack-mount enclosure. It delivers simultaneous measurements across two devices under test, doubling test throughput while maintaining a compact footprint in high-density test systems. The instrument captures transient signals and

waveforms at 1 Msample/sec with 18-bit resolution. Voltage sensitivity reaches 1 μV and current sensitivity 0.1 nA in sampling mode. For DC measurements, resolution extends to 10 nV, 0.1 $\mu\Omega$, and 1 pA - essential for characterizing low-power components. DC voltage ranges span 100 mV to 1000 V with accuracy from 14 ppm (10 V range) to 41 ppm (1000 V range), all calibrated at TCAL $\pm 5^\circ\text{C}$. Technical Specifications Measurement & Digitization Digitizer: 1 Msample/sec, 18-bit DC voltage ranges: 100 mV, 1 V, 10 V, 100 V, 1000 V DC voltage resolution: 10 nV minimum Voltage sensitivity (sampling): 1 μV Current sensitivity (sampling): 0.1 nA Reading storage: 27.5 million time-stamped readings per channel Input impedance (100 mV–10 V): $>10\text{ G}\Omega$ || $<400\text{ pF}$ (auto) or $10\text{ M}\Omega \pm 1\%$ Input bias current: $<50\text{ pA}$ at 23°C Hardware & Interfaces Channels: 2 independent DMM modules Form factor: 1U high, full rack width Communications: USB-A (flash drive), USB-B (data/control), Ethernet LAN (LXI 2016 compliant, TCP/IP, IEEE 802.3) Digital I/O: For stand-alone binning and component handler interfaces Firmware: Upgradeable and downgradeable Key Features Embedded Test Script Processor (TSP) for direct on-instrument script execution, reducing PC overhead TSP-Link support enables master/slave instrument-to-instrument communication Simplified trigger model with measure configuration lists Built-in comparator for pass/fail limit testing No front-panel display; virtual front panel via LAN SCPI and TSP programming languages Typical Applications Multi-device simultaneous characterization in production test Transient capture and waveform analysis Low-current and low-voltage component validation Stand-alone automated test binning operations Compatibility & Integration The DMM7512 integrates into LXI-compliant test systems via Ethernet and supports legacy SCPI control. USB interfaces enable firmware updates and direct PC communication. Digital I/O expands system integration with component handlers and external logic.

Features & description

From manufacturer datasheet

Features

- Two fully independent DMMs, no shared ADC

DMM7512 Characteristics / Specifications

PARAMETER	VALUE
Model	DMM7512
Manufacturer	Keithley / Tektronix
Instrument Type	Dual channel 7.5 digit sampling multimeter
Alias	DMM7512
Channel count	2 independent DMMs
Resolution	3.5 to 7.5 digits
DC voltage range	100 mV to 1000 V (10 nV resolution on 100 mV)
DC voltage sensitivity	10 nV
Resistance range	1 ohm to 1 Gohm (0.1 uohm resolution on 1 ohm)
Resistance sensitivity	0.1 uohm
DC current range	10 uA class to 3 A (1 pA sensitivity class)
DC current sensitivity	1 pA
One year DCV accuracy 10 V	14 ppm of reading + 1.2 ppm of range (TCAL ± 5 C)
One year resistance accuracy 1 kohm	24 ppm of reading + 3 ppm of range (enhanced, within 30 days of autocal)
One year DCI accuracy class	60 ppm class best
Digitizer rate	1 Msample/s, 18 bit
Digitizer buffer	up to 27.5 million timestamped readings
Transfer rate class	up to 100000 measurements/s
DCV 24 hour 10 V	2 ppm of reading + 0.7 ppm of range (TCAL ± 1 C)
Input impedance 100 mV to 10 V	selectable greater than 10 Gohm or 10 Mohm $\pm 1\%$
Input impedance 100 V to 1000 V	10 Mohm $\pm 1\%$
Input bias current	less than 50 pA at 23 C (autozero off or 10 Mohm)
Common mode voltage	500 V peak LO to chassis
ADC linearity	1.0 ppm of reading + 1.0 ppm of range
Temperature	RTD, thermistor, thermocouple

PARAMETER	VALUE
Functions extra	offset compensated ohms, four wire, dry circuit
Interfaces	USB TMC, LAN LXI, TSP-Link, digital I/O, external trigger in/out per DMM
Line	100 to 240 VAC, 50/60 Hz, 165 VA max
Form	1U full rack, two measurement modules
Current fuse	3 A, 250 V per AMPS input
Not DMM75	3 A max current and 1U dual versus single graphical DMM7510 Notes Specs from Keithley DMM7512 dual channel 7.5-digit sampling multimeter data sheet. Accuracies at the terminals after proper Rel; 20% overrange except 1% on 1000 V. Confirm both modules present and LAN/TSP-Link addressing.

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.

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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.