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Data Sheet

August 13, 2026

KEITHLEY

Keithley 2010 Series: 7.5 Digit Multimeter with Scanning

Keithley 2010 7.5-Digit Low-Noise Multimeter with Scanning The Keithley 2010 is a 7.5-digit low-noise digital multimeter with built-in scanner mainframe support for multipoint measurements. It combines a low noise floor (about 100 nV rms) and about 7 ppm DCV repeatability with high-throughput A/D converter technology shared with the 2000/2001/2002 family. Specialized ohms functions (low-power ohms, dry circuit, offset-compensated ohms, 10 ohm range) suit contact, connector, switch, and relay characterization. Optional 2000-SCAN and 2001-TCSCAN cards provide internal scanning; GPIB and RS-232 are standard. The Keithley 2010 is a 7.5-digit low-noise digital multimeter with built-in scanner mainframe support for multipoint measurements. It combines a low noise floor (about 100 nV rms) and about 7 ppm DCV repeatability with high-throughput A/D converter technology shared with the 2000/2001/2002 family. Specialized ohms functions (low-power ohms, dry circuit, offset-compensated ohms, 10 ohm range) suit contact, connector, switch, and relay characterization. Optional 2000-SCAN and 2001-TCSCAN cards provide internal scanning; GPIB and RS-232 are standard. Precision sensor and transducer test; A/D and D/A converter characterization; contact/connector/switch/relay resistance and isolation; multipoint scanned DCV/ohms/temperature; production DMM with low-level noise floor.



MODEL

Keithley 2010

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

2010

LISTING

<https://aumictechlabs.com/products/2010-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 2010 Series is a 7.5 digit multimeter with integrated 10-channel scanning, engineered for high-precision DC and AC measurements in research, development, and quality control environments. Built on the same analog-to-digital converter architecture as the 2000, 2001, and 2002 series, it delivers 7 ppm DC voltage repeatability and 100 nV RMS noise floor with 15 measurement functions including voltage, current, resistance, temperature, frequency, and diode testing.

Technical Specifications

Measurement Performance

Resolution: 7½ digits DC Voltage repeatability: 7 ppm RMS noise floor: 100 nV AC voltage and current bandwidth: Up to 300 kHz Maximum internal trigger rate: 2000/s Maximum external trigger rate: 480/s Warm-up time: 2 hours to rated accuracy

Measurement Functions

Fifteen built-in functions cover DCV, ACV, DCI, ACI, 2-wire and 4-wire resistance, dry circuit resistance, RTD and thermocouple temperature, frequency, period, ratio, continuity, and diode testing.

Electrical Specifications

Power supply: 100V / 120V / 220V / 240V ±10% Line frequency: Automatically senses 45 Hz to 66 Hz and 360 Hz to 440 Hz Power consumption: 22 VA

Key Features

Integrated 10-channel scanner mainframe for multipoint measurements Low-Power Ohms mode with source current as low as 100 µA, minimizing device self-heating Dry Circuit Test function limiting open circuit test voltage to 20 mV to prevent oxide puncturing Offset Compensated Ohms function eliminates thermal errors in low-level resistance measurements Extended 10 Ω resistance range for precise low-resistance measurements Fast autoranging and function switching with programmable internal and external triggering

Typical Applications

End-of-life contact testing per ASTM B539-90, connector and contact resistance characterization, multi-channel temperature monitoring via RTD and thermocouple inputs, and precision DC voltage and resistance measurements in production and failure analysis environments.

Compatibility & Integration

Accepts optional scanner cards including the 2000-SCAN (10-channel) and 2001-TCSCAN (9-channel thermocouple). For larger-scale switching applications, the 2010 integrates with Keithley Series 7000 switch matrices and cards.

Features & description

From manufacturer datasheet

Features

- 7.5-digit resolution; about 100 nV rms noise floor

2010 Characteristics / Specifications

PARAMETER	VALUE
Model	2010
Manufacturer	Keithley / Tektronix
Instrument Type	7.5-digit low-noise DMM with scanning
Resolution	7.5 digits
Noise Floor	about 100 nV rms
DCV Repeatability Class	about 7 ppm
DC Voltage Range	10 nV to 1000 V
AC RMS Voltage Range	0.1 uV to 750 V (1000 V peak)
DC Current Range	10 nA to 3 A
AC RMS Current Range	1 uA to 3 A
Resistance Range	1 uohm to 120 Mohm (2-wire and 4-wire)
Frequency Range	3 Hz to 500 kHz
Thermocouple Temperature	-200 C to +1372 C
RTD Temperature	-200 C to +630 C 90-day Basic DCV Accuracy Class: 0.0018% 90-day Basic Resistance Accuracy Class: 0.0032%
Reading Rate 6.5 digits	about 50 readings/s over IEEE-488
Reading Rate 4.5 digits	up to about 2000 readings/s into buffer
Internal Scanner DCV Rate (trigger delay 0)	about 105 channels/s
Interfaces	GPIB (IEEE-488) and RS-232
Reading Buffer	up to 1024 readings Notes Specs from Keithley 2010 user manual and Model 2010 specifications. Confirm installed scan card and GPIB address before multipoint automation.

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	2010
Manufacturer	Keithley / Tektronix
Instrument Type	7.5-digit low-noise DMM with scanning

Specifications

PARAMETER	VALUE
Resolution	7.5 digits
Noise Floor	about 100 nV rms
DCV Repeatability Class	about 7 ppm

Specifications

PARAMETER	VALUE
DC Voltage Range	10 nV to 1000 V
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Specifications

PARAMETER	VALUE
AC RMS Current Range	1 uA to 3 A
Resistance Range	1 uohm to 120 Mohm (2-wire and 4-wire)
Frequency Range	3 Hz to 500 kHz

Thermocouple Temperature: -200 C to +1372 C

RTD Temperature: -200 C to +630 C

90-day Basic DCV Accuracy Class: 0.0018%

90-day Basic Resistance Accuracy Class: 0.0032%

Specifications

PARAMETER	VALUE
Reading Rate 6.5 digits	about 50 readings/s over IEEE-488
Reading Rate 4.5 digits	up to about 2000 readings/s into buffer
Internal Scanner DCV Rate (trigger delay 0)	about 105 channels/s

Internal Scanner 2-wire Ohms Rate: about 102 channels/s

Internal Scanner 4-wire Ohms Rate: about 55 channels/s (less than 10 Mohm)

Optional Scan Cards: 2000-SCAN (10 ch); 2001-TCSCAN (9 ch TC)

Interfaces: GPIB (IEEE-488) and RS-232

Reading Buffer: up to 1024 readings

Notes

Specs from Keithley 2010 user manual and Model 2010 specifications. Confirm installed scan card and GPIB address before multipoint automation.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.