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Data Sheet

August 13, 2026

KEITHLEY

Keithley 2001 Series: 7.5 Digit Multimeter with Scanning

Keithley 2001 7.5 Digit High Performance Multimeter The Keithley 2001 is a 7.5-digit systems DMM sharing the 2000/2002 high-speed A/D architecture. Basic 1-year DCV accuracy 0.0018 percent. DCV from 10 nV to 1100 V. Resistance 1 uohm to 1 Gohm class. DCI 10 pA sensitivity, 200 uA to 2 A. Frequency 1 Hz to 2 MHz. Peak detector to 1 MHz repetitive or 1 us single spike. Built-in scanner mainframe. 8K reading memory standard; 32K and 128K optional. GPIB and RS-232. Up to 2000 readings/s at 4.5 digits; 44 readings/s at 7.5 digits full accuracy on DCV/ohms. The Keithley 2001 is a 7.5-digit systems DMM sharing the 2000/2002 high-speed A/D architecture. Basic 1-year DCV accuracy 0.0018 percent. DCV from 10 nV to 1100 V. Resistance 1 uohm to 1 Gohm class. DCI 10 pA sensitivity, 200 uA to 2 A. Frequency 1 Hz to 2 MHz. Peak detector to 1 MHz repetitive or 1 us single spike. Built-in scanner mainframe. 8K reading memory standard; 32K and 128K optional. GPIB and RS-232. Up to 2000 readings/s at 4.5 digits; 44 readings/s at 7.5 digits full accuracy on DCV/ohms. AC+DC and THD-class analysis of the 2001 feature set



MODEL

Keithley 2001

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

2001

LISTING

<https://aumictechlabs.com/products/2001-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 2001 Series is a 7.5-digit multimeter engineered for precision measurement and automated data acquisition in laboratory, engineering, and system integration environments. Built on a 28-bit A/D converter, it delivers true 7.5-digit resolution across DC voltage, AC voltage, current, resistance, frequency, and temperature measurements. The instrument supports single-range DC voltage measurement from 1 μ V to 20 V, eliminating range-shift errors and delays. Optional scanning capabilities enable multi-point automated testing with up to ten measurement points, reducing test cycle time and operator intervention. Technical Specifications Voltage & Current Measurement DC Voltage: 1 μ V to 20 V single range; 0.0018% basic accuracy; input resistance >10 G Ω on 20 V, 2 V, 200 mV ranges AC Voltage: Up to 750 V; better than 0.1% accuracy down to 1 Hz; TRMS, average, peak, AC+DC, and crest factor modes; peak detection captures 1 μ s spikes DC Current: Up to 2 A AC Current: Up to 2 A Resistance & Specialized Functions Resistance: Up to 1000 Ω using unique single-phase 4-wire method, twice as fast as competitive techniques; built-in open-lead detection Frequency: 1 Hz to 15 MHz at $\pm$ (0.03% of reading) accuracy Temperature measurement supported; continuity test included Performance Speed: Over 2000 readings/second at 4.5-digit resolution; up to 44 readings/second at full 7.5-digit accuracy for DCV and ohms Trigger response: Less than 2 μ s $\pm$ 1 μ s Memory options: 8K, 32K, or 128K configurations available Key Features 28-bit A/D converter enables minute signal discrimination and extended dynamic range Scanning options: 10-channel card (2000-SCAN), 10-channel with dual high-speed channels (2001-SCAN), or 9-channel thermocouple card (2001-TCSCAN) High-speed function and range switching Greater dynamic range supports measurements from 1 μ V to 20 V on single range Typical Applications Precision engineering measurements, multi-point automated test systems, laboratory data acquisition, enterprise-level quality assurance, transient capture for power supply analysis. Compatibility & Integration Scanner card integration accommodates multi-channel test configurations for streamlined production and field testing workflows.

Features & description

From manufacturer datasheet

Built-in scanner mainframe

Peak detector to 1 MHz / 1 us Optional 2001-SCAN / TCSCAN cards Technical Specifications Model: 2001 Manufacturer: Keithley Instruments (Tektronix) Instrument Type: 7.5 digit high performance digital multimeter Alias: 2001; Keithley 2001 Resolution: 7.5 digits Basic DCV Accuracy: 0.0018 percent (1 year) DCV Range: 10 nV to 1100 V ACV Range: 100 nV class to 750 V DCI Sensitivity: 10 pA DCI Range: 200 uA to 2 A Resistance Sensitivity: 1 uohm Resistance Maximum: 1 Gohm Basic Ohms Accuracy: 0.0032 percent class Frequency Range: 1 Hz to 2 MHz Peak Detector: 1 MHz repetitive; 1 us single spike Reading Rate 4.5 Digit: more than 2000 readings/s Reading Rate 7.5 Digit: up to 44 readings/s full accuracy DCV/ohms Reading Memory Standard: 8K readings Reading Memory Optional: 32K and 128K Scanner: built-in mainframe (optional cards) Remote Interfaces: GPIB IEEE-488; RS-232 Related 8.5 Digit: Model 2002 Related 6.5 Digit: Model 2000 Temperature: T/C and RTD family Continuity Diode: yes Offset Compensation: yes Notes Specs from Keithley 2001/2002 high-performance DMM literature and comparison table. Confirm installed memory option and scan card (2001-SCAN / 2001-TCSCAN).

2001 Characteristics / Specifications

PARAMETER	VALUE
Model	2001
Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	7.5 digit high performance digital multimeter
Alias	2001; Keithley 2001
Resolution	7.5 digits
Basic DCV Accuracy	0.0018 percent (1 year)
DCV Range	10 nV to 1100 V
ACV Range	100 nV class to 750 V
DCI Sensitivity	10 pA
DCI Range	200 uA to 2 A
Resistance Sensitivity	1 uohm
Resistance Maximum	1 Gohm
Basic Ohms Accuracy	0.0032 percent class
Frequency Range	1 Hz to 2 MHz
Peak Detector	1 MHz repetitive; 1 us single spike
Reading Rate 4.5 Digit	more than 2000 readings/s
Reading Rate 7.5 Digit	up to 44 readings/s full accuracy DCV/ohms
Reading Memory Standard	8K readings
Reading Memory Optional	32K and 128K
Scanner	built-in mainframe (optional cards)
Remote Interfaces	GPIB IEEE-488; RS-232
Related 8.5 Digit	Model 2002
Related 6.5 Digit	Model 2000
Temperature	T/C and RTD family
Continuity Diode	yes

PARAMETER	VALUE
Offset Compensation	yes Notes Specs from Keithley 2001/2002 high-performance DMM literature and comparison table. Confirm installed memory option and scan card (2001-SCAN / 2001-TCSCAN).

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.

Performance Multimeter

Overview

The Keithley 2001 is a 7.5-digit systems DMM sharing the 2000/2002 high-speed A/D architecture. Basic 1-year DCV accuracy 0.0018 percent. DCV from 10 nV to 1100 V. Resistance 1 uohm to 1 Gohm class. DCI 10 pA sensitivity, 200 uA to 2 A. Frequency 1 Hz to 2 MHz. Peak detector to 1 MHz repetitive or 1 us single spike. Built-in scanner mainframe. 8K reading memory standard; 32K and 128K optional. GPIB and RS-232. Up to 2000 readings/s at 4.5 digits; 44 readings/s at 7.5 digits full accuracy on DCV/ohms.

Applications

Production test 7.5-digit DCV and ohms

Peak/spike detection on DC rails

Scanned multipoint DMM

AC+DC and THD-class analysis of the 2001 feature set

Key Features

Open-lead detection for handler applications

Single-phase 4-wire ohms (faster than two-phase)

Built-in scanner mainframe

Peak detector to 1 MHz / 1 us

Optional 2001-SCAN / TCSCAN cards

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	2001
Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	7.5 digit high performance digital multimeter

Specifications

PARAMETER	VALUE
Alias	2001; Keithley 2001
Resolution	7.5 digits
Basic DCV Accuracy	0.0018 percent (1 year)

Specifications

PARAMETER	VALUE
DCV Range	10 nV to 1100 V
ACV Range	100 nV class to 750 V

PARAMETER	VALUE
DCI Sensitivity	10 pA

Specifications

PARAMETER	VALUE
DCI Range	200 uA to 2 A
Resistance Sensitivity	1 uohm
Resistance Maximum	1 Gohm

Specifications

PARAMETER	VALUE
Basic Ohms Accuracy	0.0032 percent class
Frequency Range	1 Hz to 2 MHz
Peak Detector	1 MHz repetitive; 1 us single spike

Specifications

PARAMETER	VALUE
Reading Rate 4.5 Digit	more than 2000 readings/s
Reading Rate 7.5 Digit	up to 44 readings/s full accuracy DCV/ohms
Reading Memory Standard	8K readings

Specifications

PARAMETER	VALUE
Reading Memory Optional	32K and 128K
Scanner	built-in mainframe (optional cards)
Remote Interfaces	GPIB IEEE-488; RS-232

Specifications

PARAMETER	VALUE
Related 8.5 Digit	Model 2002
Related 6.5 Digit	Model 2000
Temperature	T/C and RTD family

Continuity Diode: yes
Offset Compensation: yes
Notes

Specs from Keithley 2001/2002 high-performance DMM literature and comparison table. Confirm installed memory option and scan card (2001-SCAN / 2001-TCSCAN).

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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Generated August 13, 2026

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