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Data Sheet

August 13, 2026

KEITHLEY

Keithley 2000-20

Keithley 2000-20 6.5 Digit Multimeter with Scanning The Keithley 2000-20 is the Model 2000 6.5-digit DMM configuration with scanner support for up to 20 multiplexed inputs (2000-SCAN 10-channel card; datasheet states optional cards multiplex up to 20 signals). Same A/D family as 2001/2002. DCV 100 nV to 1000 V with 0.002 percent 90-day basic accuracy. Resistance 100 uohm to 100 Mohm with 0.008 percent 90-day basic accuracy. 50 triggered readings/s at 6.5 digits over IEEE-488; 2000 readings/s at 4.5 digits into a 1024-reading buffer. Thirteen functions including temperature, frequency, period, dB, dBm, continuity, and diode. GPIB and RS-232. The Keithley 2000-20 is the Model 2000 6.5-digit DMM configuration with scanner support for up to 20 multiplexed inputs (2000-SCAN 10-channel card; datasheet states optional cards multiplex up to 20 signals). Same A/D family as 2001/2002. DCV 100 nV to 1000 V with 0.002 percent 90-day basic accuracy. Resistance 100 uohm to 100 Mohm with 0.008 percent 90-day basic accuracy. 50 triggered readings/s at 6.5 digits over IEEE-488; 2000 readings/s at 4.5 digits into a 1024-reading buffer. Thirteen functions including temperature, frequency, period, dB, dBm, continuity, and diode. GPIB and RS-232. Bench precision meter with internal scanner



MODEL

Keithley 2000-20

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

2000-20

LISTING

<https://aumictechlabs.com/products/2000-20/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 2000-20 Scanning Multimeter combines a 6.5-digit DMM with an integrated 20-channel scanner card for automated multi-point data acquisition. This instrument executes switch-and-measure operations across 20 channels of 2-pole relay input, configurable to 10 channels of 4-pole switching, with latching electromechanical relays and <3.5 ms actuation time. The platform supports DC voltages to 60 V and 0.5 A, AC signals to 30 V rms (100 kHz maximum), and delivers contact life exceeding 10^8 cold-switching cycles with contact resistance $10^8 \Omega$ isolation between terminals and earth with <150 pF capacitance, supporting 60 V DC or 42.4 V AC peak common-mode voltage. IEEE-488 and RS-232 interfaces enable integration with existing test software including TestPoint and LabVIEW drivers, facilitating system upgrades for benchtop and automated testing environments requiring precision resistance measurement and distributed signal switching.

Technical Specifications

Multimeter Functions

DC Voltage: 100 mV – 1000 V range; 0.002% accuracy (90-day basic)

AC Voltage: 100 mV – 750 V range

DC Current: 10 mA – 3 A range

AC Current: 1 A – 3 A range

Resistance: 100 Ω – 100 M Ω range; 0.008% accuracy (4-wire, 90-day basic)

Frequency: 3 Hz – 500 kHz measurement capability

Temperature: J, K, and T-type thermocouple support

Additional functions: AC/DC voltage and current, continuity, period, dB, dBm, diode test

Scanner Card (Model 2000-SCAN-20) 20 channels, 2-pole relay configuration; reconfigurable to 10 channels 4-pole operation

Latching electromechanical relays with 10^5 operations at rated signal; $>10^8$ cold-switch operations

Contact resistance: $10^8 \Omega$ between terminals and earth; <150 pF capacitance

Common-mode voltage: 60 V DC or 42.4 V AC peak

44-pin high-density D-subminiature connector

Performance

Resolution: 6.5-digit

Scan rate: up to 90 channels/second (DCV)

Internal buffer: 2000 readings/second at 4.5 digits

Remote reading rate: 50 triggered readings/second at 6.5 digits over IEEE-488

Key Features

Integrated 20-channel scanner eliminates external relay modules

Configurable relay topology for 2-pole or 4-pole measurement circuits

Built-in limit testing for automated component acceptance/rejection

$10^8 \Omega$ inter-terminal isolation supports low-level signal scanning

Typical Applications

Automated component testing and characterization

Multi-point resistance measurement on circuit assemblies

Benchtop manufacturing test and go/no-go grading

Environmental chamber data logging with thermocouple input

Distributed voltage and current monitoring across networked test points

Compatibility & Integration

IEEE-488 (HP-IB) and RS-232 interfaces

TestPoint and LabVIEW driver support for rapid test program development

Direct integration into existing automated test systems without external switching hardware

Features & description

From manufacturer datasheet

Built-in scanner mainframe for 2000-SCAN / 20-channel option

Closed-cover calibration Front and rear inputs 1024-reading buffer Same A/D technology as 2001/2002 at 6.5 digits Technical Specifications Model: 2000-20 Manufacturer: Keithley Instruments (Tektronix) Instrument Type: 6.5 digit digital multimeter with scanning Alias: 2000-20; 2000/2000-20; Keithley 2000 SCAN Resolution: 6.5 digits Basic DCV Accuracy 90 Day: 0.002 percent Basic DCV Accuracy 1 Year Class: 0.003 percent comparison table DCV Range: 100 nV to 1000 V ACV Range: 100 nV class to 750 V Resistance Range: 100 uohm to 100 Mohm Basic Ohms Accuracy 90 Day: 0.008 percent DCI Range: 10 nA class to 3 A Frequency Range: 3 Hz to 300 kHz Temperature: T/C and RTD Functions: DCV, ACV, DCI, ACI, 2-wire ohms, 4-wire ohms, temperature, frequency, period, dB, dBm, continuity, diode Reading Rate 6.5 Digit: 50 triggered readings/s over IEEE-488 Reading Rate 4.5 Digit: 2000 readings/s into buffer Reading Buffer: 1024 readings Scanner Inputs: up to 20 multiplexed signals (optional cards) Optional Scan Card: 2000-SCAN 10 channel Remote Interfaces: GPIB IEEE-488; RS-232 Related 7.5 Digit: 2010 with scanner Form: half rack Weight Class: 3.5 kg / 6.5 kg shipping class Notes Specs from Keithley Model 2000 6.5-Digit Multimeter datasheet (2000/2000-20 scanning configuration). Confirm installed 2000-SCAN versus 20-channel option and GPIB address.

2000 Characteristics / Specifications

PARAMETER	VALUE
Model	2000-20
Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	6.5 digit digital multimeter with scanning
Alias	2000-20; 2000/2000-20; Keithley 2000 SCAN
Resolution	6.5 digits
Basic DCV Accuracy 90 Day	0.002 percent
Basic DCV Accuracy 1 Year Class	0.003 percent comparison table
DCV Range	100 nV to 1000 V
ACV Range	100 nV class to 750 V
Resistance Range	100 uohm to 100 Mohm
Basic Ohms Accuracy 90 Day	0.008 percent
DCI Range	10 nA class to 3 A
Frequency Range	3 Hz to 300 kHz
Temperature	T/C and RTD
Functions	DCV, ACV, DCI, ACI, 2-wire ohms, 4-wire ohms, temperature, frequency, period, dB, dBm, continuity, diode
Reading Rate 6.5 Digit	50 triggered readings/s over IEEE-488
Reading Rate 4.5 Digit	2000 readings/s into buffer
Reading Buffer	1024 readings
Scanner Inputs	up to 20 multiplexed signals (optional cards)
Remote Interfaces	GPIB IEEE-488; RS-232
Related 7.5 Digit	2010 with scanner
Form	half rack
Weight Class	3.5 kg / 6.5 kg shipping class Notes Specs from Keithley Model 2000 6.5-Digit Multimeter datasheet (2000/2000-20 scanning configuration). Confirm installed 2000-SCAN versus 20-channel option and GPIB address.

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	
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PARAMETER	VALUE
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Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	6.5 digit digital multimeter with scanning
Specifications	
PARAMETER	VALUE
Alias	2000-20; 2000/2000-20; Keithley 2000 SCAN
Resolution	6.5 digits
Basic DCV Accuracy 90 Day	0.002 percent
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PARAMETER	VALUE
Basic DCV Accuracy 1 Year Class	0.003 percent comparison table
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Specifications	
PARAMETER	VALUE
Resistance Range	100 uohm to 100 Mohm
Basic Ohms Accuracy 90 Day	0.008 percent
DCI Range	10 nA class to 3 A
Specifications	
PARAMETER	VALUE
Frequency Range	3 Hz to 300 kHz
Temperature	T/C and RTD
Functions	DCV, ACV, DCI, ACI, 2-wire ohms, 4-wire ohms, temperature, frequency, period, dB, dBm, continuity, diode

Specifications

PARAMETER	VALUE
Reading Rate 6.5 Digit	50 triggered readings/s over IEEE-488
Reading Rate 4.5 Digit	2000 readings/s into buffer
Reading Buffer	1024 readings

Scanner Inputs: up to 20 multiplexed signals (optional cards)

Optional Scan Card: 2000-SCAN 10 channel

Specifications

PARAMETER	VALUE
Remote Interfaces	GPIB IEEE-488; RS-232
Related 7.5 Digit	2010 with scanner
Form	half rack

Weight Class: 3.5 kg / 6.5 kg shipping class

Notes

Specs from Keithley Model 2000 6.5-Digit Multimeter datasheet (2000/2000-20 scanning configuration). Confirm installed 2000-SCAN versus 20-channel option and GPIB address.

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

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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.