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Data Sheet

August 13, 2026

KEITHLEY

Keithley 2100/100 6½-Digit USB Multimeter

Keithley 2100/100 6.5 Digit USB Digital Multimeter 100 Vac The Keithley 2100/100 is the 100 Vac line version of the Model 2100 6.5-digit USB digital multimeter (Japan/100 V mains). Basic 1-year DCV accuracy is 0.0038 percent of reading plus 0.0006 percent of range on the 10 V range (23 plus/minus 5 C). Eleven measurement functions, eight math functions, TMC-compliant USB 2.0, selectable front/rear inputs, and a 2000-reading buffer. At 6.5 digits it delivers 50 triggered readings/s over USB; at 4.5 digits over 2000 readings/s into the buffer. The Keithley 2100/100 is the 100 Vac line version of the Model 2100 6.5-digit USB digital multimeter (Japan/100 V mains). Basic 1-year DCV accuracy is 0.0038 percent of reading plus 0.0006 percent of range on the 10 V range (23 plus/minus 5 C). Eleven measurement functions, eight math functions, TMC-compliant USB 2.0, selectable front/rear inputs, and a 2000-reading buffer. At 6.5 digits it delivers 50 triggered readings/s over USB; at 4.5 digits over 2000 readings/s into the buffer. Bench and system DCV/ohms metrology on 100 Vac mains



MODEL

Keithley 2100/100

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

2100/100

LISTING

<https://aumictechlabs.com/products/2100-100-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keithley 2100/100 is a 6½-digit USB multimeter delivering precision DC and AC measurements across voltage, current, resistance, frequency, and temperature. With 0.0038%

basic DC voltage accuracy on the 10V range and 0.013% resistance accuracy on the 10k Ω range, this instrument serves R&D engineers, test engineers, scientists, and students in benchtop and automated test environments. Technical Specifications Measurement Functions DC and AC voltage (True RMS) to 750V DC and AC current (True RMS) to 3.000000A Resistance from 100 Ω to 100M Ω Frequency measurement 3 Hz to 300 kHz RTD temperature with $\pm 0.1^\circ\text{C}$ accuracy (-100°C to $+100^\circ\text{C}$) and $\pm 0.2^\circ\text{C}$ (-200°C to $+630^\circ\text{C}$) Performance 50 triggered readings/second at 6½ digits via USB Over 2000 readings/second at 4½ digits into internal buffer Input protection: 1000V (2-wire mode) Input bias current: <30pA at 25°C Temperature Measurement Supports PT100, D100, F100, PT385, and PT3916 RTDs with 0.001°C resolution across two ranges. Maximum lead resistance: 12 Ω per lead at 1mA pulsed sensor current. Mathematical Functions RATIO, percentage, Min/Max, NULL, limits, mX+b, dB, and dBm calculations. Key Features TMC-compliant USB 2.0 interface with Agilent 34401A command emulation for plug-and-play integration 5×7 dot matrix VFD display with three-color annunciators and selectable front/rear inputs Rugged construction with removable rubber bumpers for bench, portable, or stacking applications Sturdy carrying handle for field use 1 PLC or continuous trigger measurement modes Software Integration Included KI-Tool application enables real-time charting and graphing of measurements without programming. Typical Applications Component characterization, calibration verification, manufacturing test, thermal monitoring, and automated test system integration.

2100 Characteristics / Specifications

PARAMETER	VALUE
Model	2100/100
Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	6.5 digit USB digital multimeter
Alias	2100/100; 2100100; Keithley 2100 100 Vac
Line Voltage	100 Vac
Line Frequency	50/60 Hz auto detected
Power Consumption	25 VA max
Resolution	6.5 digits
Basic DCV Accuracy	0.0038 percent of reading (10 V range, 1 year, 23 plus/minus 5 C)
Basic Ohms Accuracy	0.013 percent of reading (10 kohm range, 1 year)
DCV Ranges	100 mV, 1 V, 10 V, 100 V, 1000 V
DCV Best Resolution	0.1 uV on 100 mV
DCV Input Resistance Low	greater than 10 Gohm on 100 mV to 10 V
ACV Ranges	100 mV to 750 V RMS
DCI Ranges	10 mA, 100 mA, 1 A, 3 A
ACI Ranges	1 A and 3 A
Resistance Ranges	100 ohm to 100 Mohm (2-wire and 4-wire)
Frequency Range	3 Hz to 300 kHz class
RTD Temperature	minus 200 C to plus 630 C (PT100 class, 1 mA sensor current)
Reading Rate 6.5 Digit	50 triggered readings/s via USB
Reading Rate 4.5 Digit	greater than 2000 readings/s into buffer
Reading Buffer	2000 readings
Remote Interface	USB 2.0 TMC
Dimensions	112 mm by 256 mm by 375 mm
Weight	4.1 kg

PARAMETER	VALUE
Operating Temperature	5 C to 40 C Notes Specs from Keithley Model 2100 6.5-digit USB DMM datasheet. Measurement table is common to 2100 line SKUs; this unit is the 100 Vac setting. Confirm rear-panel line marking.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	5 C to 40 C
Operating Temperature	5 C to 40 C

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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Specifications	
PARAMETER	VALUE
Alias	2100/100; 2100100; Keithley 2100 100 Vac
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Specifications

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Specifications

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Specifications

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Weight: 4.1 kg

Operating Temperature: 5 C to 40 C

Notes

Specs from Keithley Model 2100 6.5-digit USB DMM datasheet. Measurement table is common to 2100 line SKUs; this unit is the 100 Vac setting. Confirm rear-panel line marking.

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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NIST-traceable calibration · SAM registered ·
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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.