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Data Sheet

August 13, 2026

KEITHLEY

Keithley 2100/230-240 6½-Digit USB Multimeter

Keithley 2100/230-240 6.5 Digit USB Digital Multimeter 230-240 Vac The Keithley 2100/230-240 is the 230-240 Vac line version of the Model 2100 6.5-digit USB digital multimeter. 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 2100/230-240 is the 230-240 Vac line version of the Model 2100 6.5-digit USB digital multimeter. 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 230-240 Vac mains



MODEL

Keithley 2100/230-240

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

2100/230-240

LISTING

<https://aumictechlabs.com/products/2100-230-240-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keithley 2100/230-240 is a 6½-digit USB digital multimeter engineered for precision measurement across benchtop and system applications. It delivers 0.0038% basic DC voltage accuracy on the 10V range and 0.013% resistance accuracy on the 10kΩ range, supporting measurements in DC/AC voltage, DC/AC current, resistance, frequency, period, temperature, diode testing, and continuity. The instrument achieves 50 triggered readings per second at full 6½-digit resolution via USB, or exceeds 2000 readings per second at 4½-digit resolution when using fast measurement mode with internal 2000-reading buffer storage.

Technical Specifications
Resolution: 6½ digits DC Voltage Accuracy (1-year, 10V range): 0.0038% Resistance Accuracy (1-year, 10kΩ range): 0.013% Measurement Rate (USB): 50 triggered readings/s at 6½ digits Measurement Rate (Fast Mode): >2000 readings/s at 4½ digits into 2000-reading buffer DC Voltage Ranges: 0.1V, 1V, 10V, 100V, 1000V AC Voltage Ranges: 0.1V, 1V, 10V, 100V, 750V (True RMS) DC Current Ranges: 10mA, 100mA, 1A, 3A AC Current Ranges: 1A, 3A (True RMS) Resistance Ranges: 100Ω to 100MΩ; maximum 0.1GΩ measurement capability Frequency Measurement: 3 Hz to 300 kHz Temperature Measurement: -100°C to +630°C Input Protection: 1000V on all 2-wire resistance ranges Math Functions: RATIO, %, Min/Max, NULL, Limits, mX+b, dB, dBm Operating Temperature: 5°C to 40°C Key Features 5×7 dot matrix VFD with three-color annunciators USB 2.0 TMC-compliant interface for SCPI test program control Selectable front/rear inputs for bench or rack deployment Rugged construction with removable rubber bumpers and integrated carrying handle Included PC software utilities for graphing and data export to Microsoft Office, Word, and Excel Typical Applications This multimeter serves R&D laboratories, system integrators, and field technicians requiring high-resolution DC/AC measurements, component characterization, and automated test sequences via USB control.

Compatibility & Integration USB 2.0 TMC interface supports SCPI programming. Software packages provide integration with Microsoft Office suite and Excel for real-time data visualization and analysis.

2100 Characteristics / Specifications

PARAMETER	VALUE
Model	2100/230-240
Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	6.5 digit USB digital multimeter
Alias	2100/230-240; 2100230240; Keithley 2100 230-240 Vac
Line Voltage	230-240 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
Related Line SKUs	2100/100; 2100/120; 2100/220

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	5 C to 40 C
Operating Temperature	5 C to 40 C
Related Line SKUs	2100/100; 2100/120; 2100/220 Notes Specs from Keithley Model 2100 6.5-digit USB DMM datasheet/SPEC-2100. Measurement table is common to 2100/100, 2100/120, 2100/220, and 2100/230-240; this SKU is the 230-240 Vac line setting. Confirm rear-panel line marking. Tektronix manuals list 2100 230 240 as a covered model.

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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Model	2100/230-240
Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	6.5 digit USB digital multimeter
Alias	2100/230-240; 2100230240; Keithley 2100 230-240 Vac
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Line Frequency	50/60 Hz auto detected
Power Consumption	25 VA max
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DCI Ranges	10 mA, 100 mA, 1 A, 3 A
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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
Operating Temperature	5 C to 40 C

PARAMETER	VALUE
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Related Line SKUs	2100/100; 2100/120; 2100/220
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Notes

Specs from Keithley Model 2100 6.5-digit USB DMM datasheet/SPEC-2100. Measurement table is common to 2100/100, 2100/120, 2100/220, and 2100/230-240; this SKU is the 230-240 Vac line setting. Confirm rear-panel line marking. Tektronix manuals list 2100 230 240 as a covered model.

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.