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Data Sheet

August 13, 2026

KEITHLEY

Keithley 179A

The Keithley 179A is a 4.5-digit (19999-count) true-RMS bench multimeter for DC and AC voltage, DC and AC current, and resistance. Sensitivity is 10 μ V on AC and DC volts. Current ranges allow 15 A continuous or 20 A for 1 minute on the 20 A range (unfused). HI-LO ohms: 2 V compliance on HI, 200 mV on LO. Optional 1792 isolated BCD and 1793 IEEE-488. Line 105-125 or 210-250 Vac; optional 1788 battery pack. TRMS AC on non-sinusoidal regulator and transformer currents In-circuit LO ohms without turning on junctions Storage Temperature: minus 25 C to plus 65 C class Dimensions: 85 mmHby 235 mmWby 275 mmD Weight: 1.8 kg Optional Battery: Model 1788 (8 hour class) Specs from Keithley Model 179A TRMS Multimeter instruction manual (document 32430). Confirm 1793 GPIB, 1792 BCD, and 1788 battery on the unit. 20 A range is unfused; 15 A continuous.



MODEL

Keithley 179A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

179A

LISTING

<https://aumictechlabs.com/products/179a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keithley 179A is a 4½-digit True RMS digital multimeter engineered for precision measurement across DC voltage, AC voltage, DC current, AC current, and resistance. Built for laboratory and field deployment, it delivers waveform-insensitive AC measurements via TRMS technology and spans measurement ranges from 1 μ V to 1000 V for voltage and 1 m Ω to 220 M Ω for resistance. Technical Specifications Display & Interface 4½-digit LCD with backlight; 0.45-inch digit height Polarity, function, range, and status indication Overrange display: "OL" Conversion

rate: 3 readings/second Voltage Measurement DC: 200 mV to 1200 V (5 ranges); $\pm 0.04\%$ accuracy; 10 M Ω input impedance; 1 μ V resolution AC (TRMS): Up to 100 kHz; $\pm(0.07\%$ of reading + 2 counts); 3:1 crest factor; 2-second settling time Current Measurement DC: 200 μ A to 20 A (6 ranges); $\pm 0.02\%$ accuracy (up to 2 A); $\pm 0.5\%$ at 20 A; 1 nA resolution AC (TRMS): Up to 15 A continuous, 20 A periodic; $\pm(0.07\%$ of reading + 2 counts); 3:1 crest factor; 2-second settling time Resistance Range: 1 m Ω to 220 M Ω (11 decades) Accuracy: $\pm(0.01\%$ of reading + 2 counts) on 200 Ω range HI/LO Ohms modes: HI provides 2 V compliance for semiconductor activation; LO offers 200 mV compliance for in-circuit testing 1 kV protection on Ω input Performance Warm-up time: 1 hour to rated accuracy Temperature coefficient: $\pm(0.01\%$ of reading + 0.2 digits)/ $^{\circ}$ C Key Features Front-panel push-button range and function selection with automatic polarity 100-reading data storage with selectable rates from 3 readings/second to 1 reading/hour, plus manual trigger Continuous min/max recording Dual resistance modes for semiconductor and in-circuit applications Typical Applications General-purpose electronics testing, troubleshooting, laboratory measurement, and field diagnostics where TRMS AC accuracy on non-sinusoidal waveforms is required.

179A Characteristics / Specifications

PARAMETER	VALUE
True RMS AC (crest factor)	1) HI-LO ohms semiconductor test versus in-circuit Optional 1793 IEEE-488 and 1792 isolated BCD Optional 1788 rechargeable battery pack 1000 V overload protection on ohms Technical Specifications
Model	179A
Manufacturer	Keithley Instruments
Instrument Type	4.5 digit TRMS digital multimeter
Alias	179A; Keithley 179A
Display Digits	4.5 (19999 counts)
Display Type	0.5 inch LED
DCV Sensitivity	10 μ V
ACV Sensitivity	10 μ V
Current Continuous	15 A
Current Intermittent	20 A for 1 minute (20 A range, unfused)
Current Fuse Protect	fuse protected except 20 A range
Current Max Input	250 V DC or RMS (fuse protected ranges)
Ohms HI Compliance	2 V full scale
Ohms LO Compliance	200 mV
Ohms Open Circuit	5 V maximum
Ohms Overload Protect	1000 V class
Crest Factor	3:1
Settling Time DC	1 s to within 1 digit
Settling Time AC	2 s to within 15 digits
Conversion Period	400 ms
Overrange Indication	display blinks zeros above 19999 counts
Common Mode Voltage	1400 V peak
Line Voltage	105 to 125 or 210 to 250 Vac switch selected (90 to 110 available)

PARAMETER	VALUE
Line Frequency	50 to 60 Hz
Power Consumption	5.5 W
Operating Temperature	0 to 55 C, 0 to 80 percent RH to 35 C class
Storage Temperature	minus 25 C to plus 65 C class
Dimensions	85 mmHby 235 mmWby 275 mmD Weight: 1.8 kg

General Specifications & Supplementary Characteristics

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Storage temperature	minus 25 C to plus 65 C class
Operating temperature	0 to 55 C, 0 to 80 percent RH to 35 C class
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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

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Optional IEEE: Model 1793

Optional BCD: Model 1792

Optional Battery: Model 1788 (8 hour class)

Notes

Specs from Keithley Model 179A TRMS Multimeter instruction manual (document 32430). Confirm 1793 GPIB, 1792 BCD, and 1788 battery on the unit. 20 A range is unfused; 15 A continuous.

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 ·
30-day returns
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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.