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Data Sheet

August 13, 2026

KEITHLEY

Keithley 174

The Keithley 174 is a 4.5-digit (20000-count) bench digital multimeter from the 170-series family that preceded the 179A. It measures DC voltage, AC voltage, and resistance with 10 μ V class DCV sensitivity on the lowest range and 1200 V class maximum DCV. Pushbutton range and function selection with automatic polarity. Optional BCD or systems interfaces on later 170-series siblings. Predecessor replacement planning versus 179A TRMS 4.5-digit LED display with automatic polarity HI-LO ohms family architecture shared with 179A 4.5-digit LED display with automatic polarity HI-LO ohms family architecture shared with 179A Optional rack kits from the 170-series accessory list Not TRMS on the base 174 (179A adds TRMS AC)



MODEL

Keithley 174

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

174

LISTING

<https://aumictechlabs.com/products/174-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keithley 174 is a 30,000-count digital multimeter engineered for precision general-purpose measurements across AC/DC voltage, AC/DC current, and resistance. Delivering 0.013% basic DC accuracy with 0.1 microvolt DC voltage sensitivity, the instrument provides flexible ranging via manual, automatic, or remote modes. Input isolation reaches $10^9\Omega$ case-to-case, ensuring signal integrity in demanding measurement environments. Technical Specifications Display & Accuracy 30,000-count display resolution Basic DC accuracy: 0.013% DC voltage sensitivity: 0.1 microvolt Settling time: 1 second to within 1 count of final reading Input Characteristics Input resistance: 11 M Ω on 200 mV, 2 V, and 20 V ranges; 10 M Ω on 200 V and 1000 V ranges Input isolation: Greater

than 1000 M Ω on 200 mV and 2 V ranges with all function buttons in the out position Normal mode rejection ratio: Greater than 60 dB at 50 Hz and 60 Hz Measurement Capabilities Voltage: AC/DC to 1000 V peak Current: AC/DC measurements supported Resistance: 200 Ω to 2 M Ω ranges with $\pm(0.05\% + 1\text{--}2 \text{ counts})$ accuracy Diode test: Junction voltage display to 2 V; +5 V open-circuit voltage dB mode: $\pm(0.02 \text{ dB} + 1 \text{ count})$ accuracy above -78 dBm ; 0.01 dB resolution above 5% of range Safety & Protection Maximum allowable input: 1000 V DC or peak AC (less than 10 seconds per minute on 200 mV and 2 V ranges; 300 V RMS continuous); 450 V DC or peak AC for resistance measurements Fuse: 2 A, 250 V, 3AG, normal-blow (Keithley FU-13 or equivalent) Key Features Three ranging modes: manual, automatic, or remote control Compact form factor: 89 mm H $\times$ 235 mm W $\times$ 275 mm D; 1.8 kg Low power consumption: 12 VA Optional 6-hour battery pack (Model 1758) Operating Environment Operating temperature: 0°C to 50°C Operating humidity: Less than 80% RH to 35°C; derate 3% RH/°C from 35°C to 50°C Line voltage: 105–125 V or 210–250 V, 50–60 Hz (90–110 V available) Compatibility & Integration Optional interfaces expand measurement capability: Model 1722 Digital Interface, Model 1723 IEEE Interface, Model 1740 AC Option, Model 1744 Ohmmeter Option, and Model 1745 Ammeter Option. Standard shrouded test leads (Model 1751) included.

174 Characteristics / Specifications

PARAMETER	VALUE
Model	174
Manufacturer	Keithley Instruments
Instrument Type	4.5 digit digital multimeter
Alias	174; Keithley 174
Display Digits	4.5 (20000 counts)
Display Type	LED
DCV Sensitivity Class	10 μ V
DCV Maximum Class	1200 V
ACV Function	AC voltage (average-responding class on 174)
Resistance Function	2-wire ohms with HI-LO compliance family
Current Function	DC current on 170-series current ranges (confirm faceplate)
Overrange Indication	blinking zeros above 19999 counts class
Conversion Period Class	400 ms family
Common Mode Voltage Class	1400 V peak family
Line Voltage	105 to 125 or 210 to 250 Vac switch selected
Line Frequency	50 to 60 Hz
Rack Kit	1010 single / 1017 dual
Dimensions Class	85 mm high by 235 mm wide by 275 mm deep family
Weight Class	about 1.8 kg family
Operating Temperature	0 to 55 C class
Accessories Supplied	test leads and instruction manual class
Successor	179A TRMS multimeter Notes Identity from Keithley 170-series / 174 catalog and 179A family manuals. Exact range table and AC converter type belong on the 174 instruction manual and faceplate; do not assume 179A TRMS current-to-20 A ratings on a 174.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 55 C class
Operating Temperature	0 to 55 C class
Accessories Supplied	test leads and instruction manual class
Successor	179A TRMS multimeter Notes Identity from Keithley 170-series / 174 catalog and 179A family manuals. Exact range table and AC converter type belong on the 174 instruction manual and faceplate; do not assume 179A TRMS current-to-20 A ratings on a 174.

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
Model	174
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Instrument Type	4.5 digit digital multimeter
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PARAMETER	VALUE
Alias	174; Keithley 174
Display Digits	4.5 (20000 counts)
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DCV Sensitivity Class	10 uV
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ACV Function	AC voltage (average-responding class on 174)
Specifications	
PARAMETER	VALUE
Resistance Function	2-wire ohms with HI-LO compliance family
Current Function	DC current on 170-series current ranges (confirm faceplate)
Overrange Indication	blinking zeros above 19999 counts class
Specifications	
PARAMETER	VALUE
Conversion Period Class	400 ms family
Common Mode Voltage Class	1400 V peak family
Line Voltage	105 to 125 or 210 to 250 Vac switch selected

Line Frequency: 50 to 60 Hz

Optional Battery: 1788 pack on 170-series

Optional BCD: 1792 class isolated BCD on later siblings

Optional IEEE: 1793 class on 179A (confirm if fitted to this 174)

Specifications

PARAMETER	VALUE
Rack Kit	1010 single / 1017 dual
Dimensions Class	85 mm high by 235 mm wide by 275 mm deep family
Weight Class	about 1.8 kg family

Specifications

PARAMETER	VALUE
Operating Temperature	0 to 55 C class
Accessories Supplied	test leads and instruction manual class
Successor	179A TRMS multimeter

Notes

Identity from Keithley 170-series / 174 catalog and 179A family manuals. Exact range table and AC converter type belong on the 174 instruction manual and faceplate; do not assume 179A TRMS current-to-20 A ratings on a 174.

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