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Data Sheet

August 13, 2026

YOKOGAWA / AGILENT / HP

HP 4329A High Resistance Meter

Hewlett-Packard 4329A High Resistance Meter The Hewlett-Packard (Keysight heritage) 4329A is a solid-state high-resistance and insulation resistance meter measuring from 500 kΩ to 2×10^{16} Ω with regulated DC test voltages from 10 V to 1000 V for component and material insulation testing. Insulation resistance measurement on capacitors, transformers, cables, and switches; high-value resistor verification; guarded and ungrounded sample measurements; recorder output monitoring. The Hewlett-Packard (Keysight heritage) 4329A is a solid-state high-resistance and insulation resistance meter measuring from 500 kΩ to 2×10^{16} Ω with regulated DC test voltages from 10 V to 1000 V for component and material insulation testing. Insulation resistance measurement on capacitors, transformers, cables, and switches; high-value resistor verification; guarded and ungrounded sample measurements; recorder output monitoring.

**MODEL****Yokogawa / Agilent
/ HP 4329A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****4329A****LISTING****<https://aumictechlabs.com/products/4329a-2/>**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP 4329A is a precision high resistance meter engineered for measurement of very high resistance values spanning 500 kΩ to 2×10^{16} Ω. Built around a self-oscillating parametric converter circuit with variable-capacitance diode bridge, the instrument converts minute DC currents to AC oscillations, eliminating drift and noise inherent in traditional chopper and vacuum tube designs. This solid-state architecture delivers accurate resistance and current

measurements critical for quality control, research, and development in insulation characterization and component validation.

Technical Specifications

Resistance Measurement Range: 500 k Ω to 2×10^{16} Ω Accuracy: $\pm 3\%$ at low resistance end; $\pm 5\%$ near center scale; $\pm 10\%$ near upper limit; additional $\pm 3\%$ when multiplier set to Rmax Test Voltages: 10 V, 25 V, 50 V, 100 V, 250 V, 500 V, 1000 V (all $\pm 3\%$)

Current Measurement Range: 5×10^{-14} A to 2×10^{-5} A (8 ranges) Minimum measurable current: 0.05 pA Accuracy: $\pm 5\%$ of full-scale deflection, plus $\pm 3\%$ at top decade

Input impedance: 10^4 Ω to 10^{11} Ω depending on selected range

Physical & Electrical Recorder Output: 0 to 100 mV DC, 1 k Ω output impedance Power: 115/230 V $\pm 10\%$, 50–60 Hz, ~ 3 VA

Dimensions: 155 mm H $\times$ 198 mm W $\times$ 204 mm D Weight: 3.5 kg

Key Features Seven regulated DC test voltages eliminate measurement uncertainty from supply variation Variable-capacitance diode bridge parametric conversion suppresses DC drift and chopper noise Instant sample configuration switching via front-panel ground strap relocation - no rewiring required Decade-selectable input impedance accommodates finite source impedances in high-impedance applications Analog recorder output enables continuous logging of resistance and current trends

Typical Applications Insulation quality assessment in synthetic resins, porcelain, and oils. Component validation in capacitors, transformers, and cable insulation. Leakage current characterization in high-impedance circuits.

Compatibility & Integration The HP 16008A Resistivity Cell integrates with the 4329A for volume and surface resistivity measurement of sheet insulation up to 125 mm W $\times$ 125 mm D $\times$ 7 mm H.

Features & description

From manufacturer datasheet

Features

- Resistance range 500 kOhm to 2×10^{16} Ohm

4329A Characteristics / Specifications

PARAMETER	VALUE
Model	4329A
Manufacturer	Hewlett-Packard (Keysight heritage)
Instrument Type	High Resistance Meter
Resistance Range	500 kOhm to 2×10^{16} Ohm
Resistance Accuracy	+/-10% of reading (typical +/-3% to +/-5% mid-scale)
Test Voltages	10, 25, 50, 100, 250, 500, 1000 V DC
Current Range	0.05 pA to 20 uA
Current Accuracy	+/-5% (ideal source); additional error from source impedance on finite sources
Meter Input Impedance	10^4 Ohm to 10^{11} Ohm depending on range
Sample Mode	ungrounded (guard) or grounded via front panel strap
Recorder Output	0 to 100 mV DC proportional to deflection
Recorder Output Impedance	1 kOhm
Power	115/230 VAC
Dimensions	198 W x 155 H x 203 D mm
Weight	approx. 3.5 kg
Form Factor	bench/tabletop
Alias	4329A; HP 4329A
Multiplier Settings	per range decade
Guard Terminal	front panel guard/ground strap
Meter Movement	analog panel meter display
Safety	high voltage test on insulation ranges
Accessories	16008A resistivity cell compatible (optional)
Manufacturer Note	HP/Keysight product; not Yokogawa
Calibration	Rmax range requires infinity and full-scale calibration Notes 4329A is HP/Keysight—not Yokogawa; listed per inventory cross-reference.

PARAMETER	VALUE
	Operating manual Keysight 9018-05819. Verify guard strap position for measurement configuration.

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.

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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

788 S 500 E, Pleasant Grove, UT 84062
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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.