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Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 4339B

The Agilent 4339B is a high-resistance meter for measuring insulation and high-ohm resistances with selectable test voltages. OEM 4339B materials list wide high-resistance coverage suitable for capacitors insulation materials and high-value resistors. Insulation resistance tests, high-value resistor measurement, and materials resistivity checks with appropriate fixtures. High input impedance electrometer class path Measurement Focus: high resistance insulation class Power Line Frequency Setting: 50 or 60 Hz class Operating Temperature Class: standard laboratory class Safety Interlock Class: high voltage interlock class From Agilent 4339B high-resistance meter documentation. Accuracy depends on test voltage and resistance magnitude; cite the selected range table.



MODEL

**Agilent / Keysight
4339B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

4339B

LISTING

<https://aumictechlabs.com/products/4339b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 4339B is a precision high resistance meter engineered for measurement of resistance values spanning 10 kΩ to $1.6 \times 10^{16} \Omega$ and currents from 60 fA to 100 μA. It delivers $\pm 0.6\%$ basic accuracy across automated and manual test sequences, making it essential for insulation testing, component qualification, and materials characterization in manufacturing and laboratory environments. Technical Specifications Measurement Range & Speed Resistance: 10 kΩ to $1.6 \times 10^{16} \Omega$ Current: 60 fA to 100 μA Test voltage: 0.1 Vdc to 1000 Vdc with 0.1 Vdc resolution (0.1–200 V) and 1 V steps (200 V–1 kV) Test signal level: 1 μA, 10 μA, 100 μA, 1 mA, 10 mA rms

High-speed measurement: 10 ms; contact check: 2 ms Current Limits 10 mA @ <100 V; 5 mA @ <250 V; 2 mA @ <500 V; 1 mA @ 1 kV Power & Interface 90–132 Vac or 198–264 Vac, 47–66 Hz, 45 VA typical GPIB communication; handler interface with isolated control signals Input/output resistance: 1 k Ω Key Features Auto and manual ranging with hold capability Surface resistivity (ρ_s) and volume resistivity (ρ_v) calculations Automated charge-measure-discharge test sequence programming Grounded device-under-test measurement Built-in comparator for high/in/low test classification Contact check function with 2 ms response Error correction to eliminate parasitic influence Save/recall storage for up to 10 measurement states Typical Applications Insulation material testing, electromechanical component validation, semiconductor device qualification, and quality control of high-impedance electronic assemblies requiring sub-femtoamp sensitivity and stable voltage sourcing. Compatibility & Integration Accepts test leads up to 2 m maximum length. Compatible with 16008B resistivity cells for solid sheet materials, 16117B/C low-noise test lead assemblies, and external automated test handlers via isolated handler interface with index, EOM, alarm, and trigger signals.

4339B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	high resistance meter
Series Family	Agilent 4339B
Measurement Focus	high resistance insulation class
Test Voltage	selectable
Display	numeric high resistance display
Basic Accuracy Class	high resistance meter class
Comparator Function	available class
Handler Interface	available class
Input Protection	high voltage path protection class
Measurement Speed Class	selectable
Sibling Milliohm Meter	4338B
Zero Offset Compensation	supported class
Trigger Modes	internal external class
Cable Compensation	supported class
Fixtures	high resistance fixtures class
Power Line Frequency Setting	50 or 60 Hz class
Calibration	open compensation class
Remote Interface	GPIB
Form Factor	benchtop meter
Operating Temperature Class	standard laboratory class
Power Mains Class	100 to 240 VAC class
Safety Interlock Class	high voltage interlock class
Operating temperature	Class: standard laboratory class

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: standard laboratory class
Operating Temperature	Class: standard laboratory class
Operating Temperature Class	standard laboratory class
Power Mains Class	100 to 240 VAC class
Safety Interlock Class	high voltage interlock class Notes From Agilent 4339B high-resistance meter documentation. Accuracy depends on test voltage and resistance magnitude; cite the selected range table.

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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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.