

KEYSIGHT TECHNOLOGIES (AGILENT HP)

4339B

The Keysight (Agilent) 4339B is a high-resistance meter / megohmmeter designed for precise evaluation of high-resistance materials, leakage currents, and insulation resistance of electronic components. It offers a wide measurement range, built-in DC test voltage source up to 1000 V, rapid 10 ms measurement times, and standard interfaces for integration into automated test environments.

SPECIFICATIONS

General

Interfaces	GPIB, Handler, External Trigger, Safety Interlock
Display	Backlit LCD, 3 / 4 / 5 digits selectable
Built-in Self-Test	Yes

Physical

Power Supply	90 - 132 V / 198 - 264 V AC, 47 - 66 Hz, 45 VA max
Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	320 mm x 100 mm x 450 mm mm
Weight	6.5 kg kg

Measurement Performance

Measurement Parameters	R (Resistance), I (Current), Rv (Volume Resistivity), Rs (Surface Resistivity)
Resistance Measurement Range	1 kΩ to 1.6 x 10 ¹⁶ Ω
Current Measurement Range	60 fA to 100 μA
Basic Resistance Accuracy	0.6%
Measurement Speed	10 ms (Short), 30 ms (Medium), 390 ms (Long)
Display Resolution	3, 4, or 5 selectable digits
Resistivity Calculations	Supported (Surface and Volume)
Error Correction	Open compensation
Contact Check Function	Yes
Basic Current Accuracy	0.4%
Ranging Modes	Auto and Manual
Max Display Digits	5 digits

DC Test Voltage Source

Output Voltage Range	0.1 to 1000 Vdc
Voltage Resolution	0.1 V (0.1 to 200 V), 1.0 V (200 to 1000 V)
Maximum Output Current	10 mA

Measurement Timing and Triggering

Test Sequence Function	Charge, measure, discharge (automatic)
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System Integration and Interfaces

GPIO Interface	Standard
Handler Interface	Standard
Safety Interlock	Yes
Grounded DUT Measurement	Supported

Supported Test Fixtures and Accessories

Resistivity Cell Compatibility	16008B
Component Test Fixture Support	16339A
Shielded Test Leads Compatibility	16117B/C

Physical, Power, and Environmental

Line Voltage Requirements	90 V to 132 V / 198 V to 264 V AC
Line Frequency	47 to 66 Hz
Power Consumption	45 VA max
Operating Temperature Range	0 to 55 °C
Operating Humidity Range	<= 70% RH at 40 °C

DC Voltage Source

Voltage Source Output Step Size (0 to 200 V)	0.1 V
Voltage Source Output Step Size (200 to 1000 V)	1.0 V
Voltage Source Accuracy (0 to 200 V)	$\pm(0.16\% + 100 \text{ mV})$
Voltage Source Accuracy (200 to 1000 V)	$\pm(0.16\% + 500 \text{ mV})$

Performance

Measurement Integration Time (Short)	10 ms
Measurement Integration Time (Medium)	30 ms @ 60 Hz, 36 ms @ 50 Hz
Measurement Integration Time (Long)	390 ms @ 60 Hz, 470 ms @ 50 Hz
Measurement Averaging Range	1 to 256

General Specifications

Warm-up Time	30 minutes
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Programming & Control

Command Language	SCPI
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Triggering

Trigger Source	Internal, Manual, External, or GPIB (Bus)
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Calibration & Standard

Calibration Interval	1 Year
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Test Sequence Function

Sequence Steps	Charge, Measure, Discharge
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APPLICATIONS

Leakage current and insulation resistance evaluation of components, and surface/volume resistivity measurements of materials

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.