

KEYSIGHT TECHNOLOGIES (AGILENT HP)

4349B

The Keysight Technologies (formerly Agilent / HP) 4349B is a high-performance 4-channel high resistance meter designed for rapid, simultaneous testing of multiple device-under-test (DUT) components, such as capacitors. Offering high-speed measurements, basic accuracy of 0.6%, and built-in error correction, it is ideal for high-volume manufacturing environments.

SPECIFICATIONS

General

Interfaces	GPIB, Handler
Display	VFD
Warm-up Time	30 minutes

Physical

Power Supply	90 V to 132 V / 198 V to 264 V AC, 47 Hz to 66 Hz, <= 40 VA
Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	320 mm × 100 mm × 450 mm mm
Weight	6.5 kg kg

Measurement Specifications

Number of Channels	4 channels (simultaneous multiple DUT testing)
Resistance Measurement Range	1 kΩ to 10 ¹⁵ Ω
Current Measurement Range	1 pA to 100 μA
Basic Accuracy	2%
Measurement Speed (Fastest)	9.5 ms
Contact Checking Speed	2 ms / point
Measurement Parameters	R, I
DC Voltage Source Requirement	External DC source required (no internal DC source)

Triggering and Timing

Trigger Delay Range	0 to 6500 ms
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Display & Panel Functions

Setup Registers	Save and recall up to 10 configurations
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Physical and Environmental

Operating Humidity Range	≤ 95% RH @ 40 °C (non-condensing)
Storage Temperature Range	-40 °C to 70 °C

Power Supply

Line Frequency	47 Hz to 66 Hz
Power Consumption	40 VA max

Interfaces & Control

Command Set	SCPI
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Measurement Capabilities

Math Functions	Deviation (Δ), Percent Deviation ($\Delta\%$)
Comparator Limits	High/In/Low limits for each channel

Inputs & Outputs

External Voltage Source Input	Up to 1000 V DC
Input Connector Type	Custom Triaxial
External Trigger Input	BNC (female), TTL level
Handler Interface	36-pin

Configuration Options

Channel Options	4-channel (Option 001) or 2-channel (Option 002)
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Contact Check

Contact Check Threshold Range	1 pF to 30 pF
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Measurement

Ranging Modes	Auto, Manual
Measurement Averaging	1 to 256
Aperture Time Settings	Short, Medium, Long

Display

Display Resolution Settings	3, 4, or 5 digits
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APPLICATIONS

High volume capacitor testing, high resistance material testing, and multi-channel DUT characterization

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