

**Aumictech**

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Data Sheet

August 8, 2026

AGILENT

HP / Agilent 4349B 4 Channel High Resistance Meter, DC

HP / Agilent 4349B 4 Channel High Resistance Meter, DC The HP / Agilent 4349B is a multi-channel DC high-resistance / low-current meter for manufacturing environments. With Option 4349B-700 it provides four simultaneous test channels (Option 001 provides two channels). Resistance range is approximately $10^3 \Omega$ to $10^{15} \Omega$ with current from about 1 pA to 100 μ A. Unlike the single-channel 4339B, the 4349B requires an external DC voltage source (entry up to 5000 V class, 5-digit) for resistance measurements. The HP / Agilent 4349B is a multi-channel DC high-resistance / low-current meter for manufacturing environments. With Option 4349B-700 it provides four simultaneous test channels (Option 001 provides two channels). Resistance range is approximately $10^3 \Omega$ to $10^{15} \Omega$ with current from about 1 pA to 100 μ A. Unlike the single-channel 4339B, the 4349B requires an external DC voltage source (entry up to 5000 V class, 5-digit) for resistance measurements. Multi-channel insulation resistance testing; high-volume capacitor/insulator production test; simultaneous multi-DUT Random measurements; automated handler/GPIB manufacturing lines.

No photo

MODEL

Agilent 4349B

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

4349B

LISTING

**Off-catalog — OEM
datasheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

Features & description

From manufacturer datasheet

Features

• Channels: 4 (Opt 700) or 2 (Opt 001) • R (dc): $\approx 10^3 \Omega$ to $10^{15} \Omega$ • I (dc): ≈ 1 pA to 100 μ A • External test voltage required; max entry 5000 V class, 5-digit • Measurement times: $\approx 9.5 / 28 / 98 / 397$ ms class • Ranging: auto and hold; trigger internal/manual/external • Delay: 0–9999 ms in 1 ms steps; cable ≤ 2 m • Comparator: High/In/Low per parameter; contact check (~ 2 ms) • Error correction: Open; save/recall 10 states • GPIB (IEEE-488); handler interface (negative logic, isolated) • Surface/volume resistivity per operation manual with fixtures

4349B Characteristics / Specifications

PARAMETER	VALUE
Model	4349B (4-channel)
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Multi-Channel High Resistance Meter
Family	Agilent 4339B/4349B High-Resistance Meters
Alias	HP 4349B; Agilent 4349B; 4 Channel High Resistance Meter Electrical 4 ch; R to $10^{15} \Omega$; external Vsource required Operational Notes Prefer Agilent 4339B/4349B datasheet. Confirm Opt 700 (4ch) vs Opt 001 (2ch). Requires compatible external HV source and fixtures – do not confuse with single-channel 4339A/B built-in voltage.
Channels	4 (Opt 700) or 2 (Opt 001)
R (dc)	$\approx 10^3 \Omega$ to $10^{15} \Omega$
I (dc)	$\approx 1 \text{ pA}$ to $100 \mu\text{A}$
Measurement times	$\approx 9.5 / 28 / 98 / 397 \text{ ms}$ class
Ranging	auto and hold; trigger internal/manual/external
Delay	0–9999 ms in 1 ms steps; cable $\leq 2 \text{ m}$
Comparator	High/In/Low per parameter; contact check ($\sim 2 \text{ ms}$)
Error correction	Open; save/recall 10 states

4349B Specifications

PARAMETER	VALUE
Key Features	- Channels: 4 (Opt 700) or 2 (Opt 001)
Technical Specifications	Model: 4349B (4-channel)
Electrical	4 ch; R to $10^{15} \Omega$; external V source required

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

Specifications

PARAMETER	VALUE
Model	4349B (4-channel)
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Multi-Channel High Resistance Meter
Family	Agilent 4339B/4349B High-Resistance Meters
Alias	HP 4349B; Agilent 4349B; 4 Channel High Resistance Meter

Electrical

4 ch; R to 10^15 Ω; externalVsource required

Operational Notes

Prefer Agilent 4339B/4349B datasheet. Confirm Opt 700 (4ch) vs Opt 001 (2ch). Requires compatible external HV source and fixtures – do not confuse with single-channel 4339A/B built-in voltage.

Ordering Information

OPTION	DESCRIPTION
Option 001	provides two channels). Resistance range is approximately 10^3 Ω to 10^15 Ω with current from about 1 pA to 100 μA. Unlike the single-channel 4339B, the 4349B r

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

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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.