

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

HP / AGILENT

HP / Agilent 4338A Milliohmmeter

The 4338A is a high-speed AC milliohmmeter for low-resistance measurements of contacts, connectors, PCB traces, cables, and battery internal resistance. A 1 kHz AC test signal avoids thermoelectric DC errors and avoids DC energy drain on batteries. Selectable low test currents support dry-contact testing with limited open-circuit voltage. Alias: 4338A; Agilent 4338A; HP 4338A; Keysight 4338A Test signal currents: 1 μ A, 10 μ A, 100 μ A, 1 mA, 10 mA rms Maximum voltage across sample: 20 mV peak Range: 10 Ω to 100 k Ω X / |Z| range: 10 Ω to 100 k Ω L range: 10 nH to 10 H



MODEL

HP / Agilent 4338A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

4338A

LISTING

<https://aumictechlabs.com/products/4338a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 4338A Milliohmmeter is a precise instrument engineered for accurate low-resistance measurements. Featuring a wide measurement range, it ensures versatility across various applications. Its fast test speeds enhance productivity, while a variety of functions facilitate comprehensive component testing and quality control. The 4338A is well-suited for manufacturing, research and development, and service environments where precise resistance measurements are critical.

Features & description

From manufacturer datasheet

Features

- Selectable low AC test currents for dry-contact testing
- 1 kHz AC stimulus eliminates thermoelectric offset errors
- Built-in comparator for go/no-go
- Auto-measurement mode for gross continuity
- HP-IB and handler interfaces

Applications

- Contact resistance of relays, switches, and connectors
- PCB trace and cable resistance
- Battery internal resistance at 1 kHz
- Production handler testing with comparator and HP-IB

4338A Characteristics / Specifications

PARAMETER	VALUE
Model	4338A
Manufacturer	HP / Agilent
Instrument Type	Milliohmimeter
Alias	4338A; Agilent 4338A; HP 4338A; Keysight 4338A
Test frequency	1 kHz
Test signal currents	1 uA, 10 uA, 100 uA, 1 mA, 10 mA rms
Maximum voltage across sample	20 mV peakRange: 10 uohm to 100 kohm
Phase range	-180 to +180 deg
Parameters	R, L, X, $ Z $, phase; combinations R-X, R-L, $ Z $ -phase
Basic accuracy class	0.4% (4338 family literature)
Measurement time short class	34 ms
Resolution class	10 uohm
Interfaces	HP-IB and handler
AC mains	90-132 / 198-264 Vac; 47-66 Hz
Dimensions	100 × 320 × 300 mm
Weight	about 10 lb Notes Specs from HP/Agilent 4338A product literature (aligned with 4338 family tables). Confirm firmware and fixtures on the unit; 4338B shares many limits but isalater model.

4338A Specifications

PARAMETER	VALUE
HP / Agilent 4338A Milliohmmeter	Overview
Key Features	- Selectable low AC test currents for dry-contact testing
Technical Specifications	Model: 4338A

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.