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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP 4328A Milliohmmeter

The HP 4328A is a portable 1 kHz Kelvin milliohmmeter for 0.001 to 100 ohm in 1-3-10 ranges. Accuracy plus/minus 2 percent of full scale, unaffected by series reactance up to 2 times full-scale resistance. Measuring frequency 1000 Hz plus/minus 100 Hz. Voltage across sample 200 μ V peak at full scale; maximum 20 mV peak on any range (protects films and dry contacts). Superimposed DC up to 150 V from an external source. Recorder output 0.1 Vdc at full scale, about 1 kohm. Power 115/230 V plus/minus 10 percent, 50-60 Hz, 2 W. Operating 0 to 55 C. Resolution 0.02 on 0-1 scale, 0.05 on 0-3 scale. Contact resistance of switches, relays, connectors Measuring Frequency: 1000 Hz plus/minus 100 Hz AC Power: 115 or 230 V plus/minus 10 percent Method: Kelvin 4 terminal (two probes per end) Specs from HP 4328A operating and service manual Table 1-1 (0.001-100 ohm, 1 kHz, $\pm 2\%$ FS, 20 mV peak max, currents/dissipation by range). Confirm 115 versus 230 V jumper.



MODEL

**Keysight / Agilent /
HP 4328A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

4328A

LISTING

[https://aumictechlabs.c
om/products/4328a-2/](https://aumictechlabs.com/products/4328a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight 4328A Milliohmmeter is a precision instrument for low-resistance measurement using Kelvin Bridge methodology and four-terminal measurement technique. It delivers high sensitivity across 0.001 Ω to 100 Ω full scale with maximum resolution of 0.02 Ω , achieving $\pm 2\%$ accuracy. The instrument employs constant applied current with a 1000 Hz ± 100 Hz measurement frequency and maintains sample voltage below 200 μ V peak at full scale - never exceeding 20 mV

peak under any condition, including incorrect range settings. Technical Specifications

Measurement Range: 0.001 Ω to 100 Ω full scale in 1, 3, 10 sequence Resolution: 0.02 Ω (0–1 Ω scale); 0.05 Ω (0–3 Ω scale) Accuracy: $\pm 2\%$ of full scale Measurement Frequency: 1000 Hz ± 100 Hz Sample Voltage: 200 μ V peak at full scale; 20 mV peak maximum under all conditions Series Reactance Tolerance: Unaffected up to 2 $\times$ full-scale resistance Superimposed DC Bias: Up to 150 V DC from external source Applied Current: 150 / (full scale value in m Ω) Recorder Output: 0.1 V DC at full scale; output impedance ≈ 1 k Ω Power: 115/230 V $\pm 10\%$, 50–60 Hz, 1.5 VA Dimensions: 155 mm (H) $\times$ 130 mm (W) $\times$ 280 mm (D) Weight: 3.2 kg Key Features Four-terminal measurement eliminates lead resistance errors Low power dissipation enables heat-sensitive sample testing Automatically limited voltage for safe measurement of fuses and explosive devices 150 V DC bias superposition for incremental back-biased diode resistance Optional rechargeable battery (Option 001) supports 15 hours continuous operation Recorder output for integration with external logging equipment Typical Applications Contact resistance in switches, relays, connectors Conductor and semiconductor resistivity Incremental diode resistance under bias Compatibility & Integration Supplied with HP 16005A clip-type probe, HP 16006A pin-type probe, HP 16007A/B test leads, and HP 16143A probe cable. Accepts external DC bias sources up to 150 V.

4328A Characteristics / Specifications

PARAMETER	VALUE
Model	4328A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Milliohmmeter
Series	4328
Alias	4328A; HP 4328A
Resistance Range	0.001 to 100 ohm
Range Sequence	1, 3, 10
Accuracy	plus/minus 2 percent of full scale
Reactance Tolerance	series reactance up to 2 times full scale
Measuring Frequency	1000 Hz plus/minus 100 Hz
Full Scale Sample Voltage	200 uV peak
Max Sample Voltage	20 mV peak any range
Range 0.001 ohm Current	150 mA
Range 0.001 ohm Dissipation	23 uW
Range 0.01 ohm Current	15 mA
Range 0.1 ohm Current	1.5 mA
Range 1 ohm Current	0.15 mA
Range 10 ohm Current	0.015 mA
Range 100 ohm Current	0.0015 mA
Superimposed DC	150 Vdc max
Recorder Output	0.1 Vdc at full scale
Recorder Rout	approx 1 kohm
Resolution 0 1 Scale	0.02
Resolution 0 3 Scale	0.05
Operating Temperature	0 to 55 C

PARAMETER	VALUE
AC Power	115 or 230 V plus/minus 10 percent
Power Frequency	50 to 60 Hz
Power Consumption	2 W
Method	Kelvin 4 terminal (two probes per end)
Form	portable milliohmmeter
Status	HP 4328A Notes Specs from HP 4328A operating and service manual Table 1-1 (0.001-100 ohm, 1 kHz, $\pm 2\%$ FS, 20 mV peak max, currents/dissipation by range). Confirm 115 versus 230 V jumper.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 55 C
Operating Temperature	0 to 55 C
AC Power	115 or 230 V plus/minus 10 percent
Power Frequency	50 to 60 Hz
Power Consumption	2 W
Method	Kelvin 4 terminal (two probes per end)
Form	portable milliohmmeter
Status	HP 4328A Notes Specs from HP 4328A operating and service manual Table 1-1 (0.001-100 ohm, 1 kHz, ±2% FS, 20 mV peak max, currents/dissipation by range). Confirm 115 versus 230 V jumper.

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	4328A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Milliohmmeter
Specifications	
PARAMETER	VALUE
Series	4328
Alias	4328A; HP 4328A
Resistance Range	0.001 to 100 ohm
Specifications	
PARAMETER	VALUE
Range Sequence	1, 3, 10
Accuracy	plus/minus 2 percent of full scale
Reactance Tolerance	series reactance up to 2 times full scale
Specifications	
PARAMETER	VALUE
Measuring Frequency	1000 Hz plus/minus 100 Hz
Full Scale Sample Voltage	200 uV peak
Max Sample Voltage	20 mV peak any range
Specifications	
PARAMETER	VALUE
Range 0.001 ohm Current	150 mA
Range 0.001 ohm Dissipation	23 uW
Range 0.01 ohm Current	15 mA

Specifications

PARAMETER	VALUE
Range 0.1 ohm Current	1.5 mA
Range 1 ohm Current	0.15 mA
Range 10 ohm Current	0.015 mA

Specifications

PARAMETER	VALUE
Range 100 ohm Current	0.0015 mA
Superimposed DC	150 Vdc max
Recorder Output	0.1 Vdc at full scale

Specifications

PARAMETER	VALUE
Recorder Rout	approx 1 kohm
Resolution 0 1 Scale	0.02
Resolution 0 3 Scale	0.05

Specifications

PARAMETER	VALUE
Operating Temperature	0 to 55 C
AC Power	115 or 230 V plus/minus 10 percent
Power Frequency	50 to 60 Hz

Specifications

PARAMETER	VALUE
Power Consumption	2 W
Method	Kelvin 4 terminal (two probes per end)
Form	portable milliohmmeeter

Status: HP 4328A

Notes

Specs from HP 4328A operating and service manual Table 1-1 (0.001-100 ohm, 1 kHz, ±2% FS, 20 mV peak max, currents/dissipation by range). Confirm 115 versus 230 V jumper.

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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NIST-traceable calibration · SAM registered ·
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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.