

HP 4328A
Milliohmmeter



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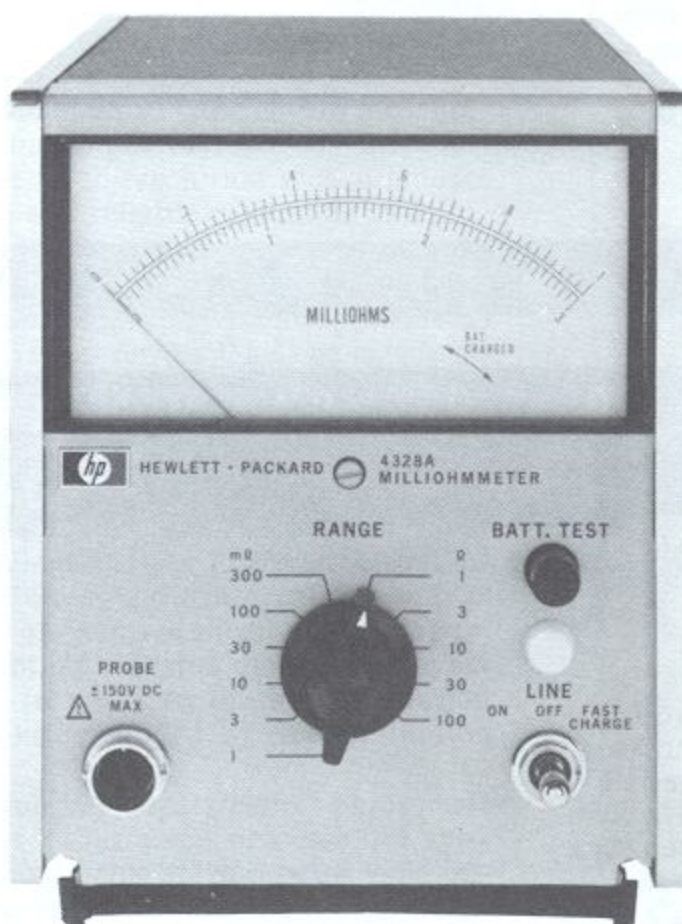
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- 20 $\mu\Omega$ resolution on 1 m Ω range
- Four terminal measurement
- Low test voltage



HP 4328A

Description

HP's 4328A Milliohmmeter is a high sensitivity portable instrument for measurement of low resistances. The 1 m Ω to 100 Ω measuring range and 20 $\mu\Omega$ resolution make the HP 4328A ideal for measuring the contact resistance of switches, relays, and connectors and the resistivity of conductors and semiconductors. Series reactances of up to twice the full scale resistance will not affect the accuracy. The maximum voltage across a sample, with the instrument at the proper range, is less than 200 μ V peak. Even at incorrect range settings, the voltage across the sample will not exceed 20 mV peak.

The special probes that allow four-terminal measurement in two probes are furnished with the HP 4328A.

The basic HP 4328A is line operated but Opt 001 permits operation from rechargeable batteries for 15 continuous hours.

Specifications

Range: 0.001 to 100 ohms full scale in a 1, 3 sequence.

Accuracy: $\pm 2\%$ of full scale. No additional error is caused by series reactance of samples up to two times full scale.

Measuring frequency: 1000 Hz ± 100 Hz.

Voltage across sample: 200 μ V peak at full scale.

Maximum voltage across sample: 20 mV peak.

Superimposed dc: 150 V dc maximum (external source).

Recorder output: 0.1 V dc output at full scale, output resistance approx. 1 k Ω .

Applied current (mA): constant by range, 150/(full scale value in milliohms).

General

Power requirements: 115/230 V $\pm 10\%$, 50 to 60 Hz, 1.5 VA.

Weight: 3.2 kg (7 lb).

Size: 155 mm H x 130 mm W x 280 mm D (6 $\frac{1}{32}$ " x 5 $\frac{1}{8}$ " x 11").

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