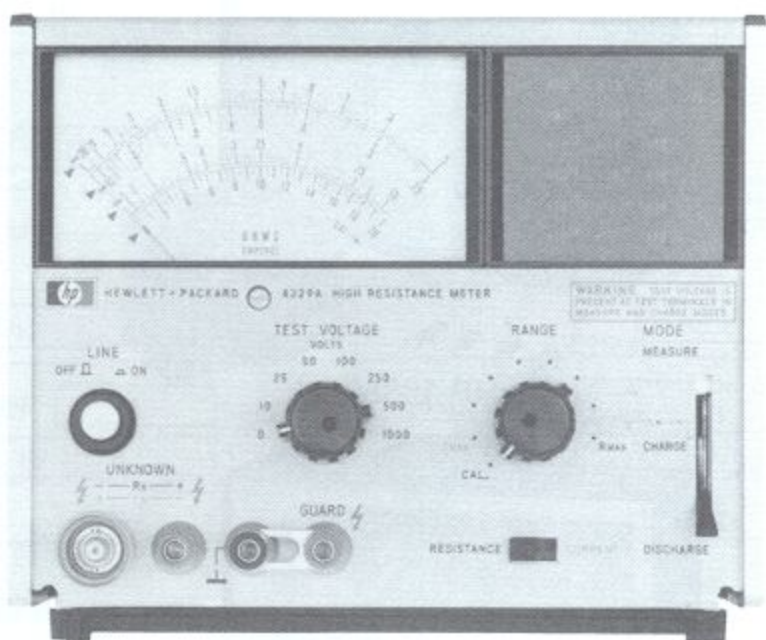


- Wide range: 500 k Ω to $2 \times 10^{16} \Omega$
- Selectable test voltages: 10 V to 1000 V



HP 4329A

Description

The HP 4329A is a solid-state insulation resistance meter designed for easy, accurate and direct readings of the very high resistance values typically found in synthetic resins, porcelain, insulating oils and similar materials. It is also useful for measurements in electrical components such as capacitors, transformers, switches and cables. Seven fully regulated dc test voltages (between 10 and 1000 Vdc) are provided as test sources.

The HP 4329A is instantly convertible from ungrounded-to-grounded-sample operation via a simple relocation of the front panel ground strap from "guard" to "+" position.

The HP 4329A also has a current measurement capability. Minute currents as low as 0.05 pA can be readily measured.

The HP 16008A Resistivity Cell, designed for use with the HP 4329A, can safely, rapidly and conveniently measure the volume and surface resistivity of sheet insulation materials (maximum sample size: 125 mm W x 125 mm D x 7 mm H).

Specifications

Resistance Measurement

Range: 500 k Ω to $2 \times 10^{16} \Omega$. (Depends on the test voltage).

Accuracy: total accuracy is determined by test voltage and range used. At low resistance end of each scale, accuracy is $\pm 3\%$, near center scale $\pm 5\%$, and near the specified upper limit on the meter scale (a quarter of full scale), accuracy is $\pm 10\%$. Accuracy is not specified above these limits. On all voltage ranges, if multiplier is set to Rmax., an additional $\pm 3\%$ is included.

Test voltages: 10 V, 25 V, 50 V, 100 V, 250 V, 500 V and 1000 V $\pm 3\%$.

Current Measurement

Range: 5×10^{-14} to 2×10^{-5} A in 8 ranges.

Accuracy: $\pm 5\%$ of full scale deflection (there can be an additional $\pm 3\%$ error at the top decade).

General

Recorder output: 0 to 100 mV dc, proportional to meter deflection; 1 k Ω output resistance.

Power: 115/230 V $\pm 10\%$, 50-60 Hz, approximately 3 VA.

Size: 155 mm H x 198 mm W x 204 mm D ($6\frac{1}{2}$ " x $7\frac{25}{32}$ " x $8\frac{25}{32}$ ").

Weight: 3.5 kg (7.7 lb).