



MEGOHMMETER

Type 1862-C



- 0.5 to 2,000,000 megohms
- 100- and 500-V test voltage
- direct reading, fast, easy

Rugged, versatile, and safe, this megohmmeter rapidly measures wide ranges of resistance at either of two test voltages. The 100-volt level is the EIA standard for measurement of composition, film, and wire-wound resistors above 100 kilohms. The 500-volt level is a standard value in the measurement of the insulation resistance of rotating machinery, transformers, cables, capacitors, appliances, and other electrical equipment.

Regulated power supply and charging circuit permit rapid and accurate measurement of the leakage resistance of capacitors.

Guard and ground terminals permit measurement of grounded or ungrounded two- or three-terminal resistors.

A panel warning light indicates when voltage is applied to the test terminals and thus permits connections to be made safely.

The megohmmeter consists of a regulated power supply, a complement of resistance standards, and a balanced, dc, vacuum-tube voltmeter with very high input resistance.

— See **GR Experimenter** for July 1963.

For measurements of resistance to 5×10^{14} ohms, as well as of very low voltages and currents, consider the **1230-A Electrometer and DC Amplifier**.

specifications

Resistance Range: 0.5 M Ω to 2 T Ω (5×10^4 to 2×10^9 Ω) at 500 V; 0.5 M Ω to 0.2 T Ω at 100 V; 6 decade ranges; 90% of meter scale utilized for resistance scales up to 500,000 M Ω ; center-scale values are 1, 10, 100, 1000, 10,000 and 100,000 M Ω for 500-V operation.

Accuracy: $\pm 3\%$ of indication at low-resistance end of each decade to $\pm 12\%$ (accuracy to which scale can be read) at high-resistance end up to 50,000 M Ω ; possible additional $\pm 2\%$ error at top decade. Switch position provided for standardizing calibration at 500 V.

Test Voltage: 100 ± 4 V or 500 ± 10 V, as selected by front-panel switch. Available current is limited to safe values; approx 2 mA at 100 V, 10 mA at 500 V.

Power Required: 105 to 125 or 210 to 250 V, 40 to 60 Hz (operates satisfactorily up to 400 Hz), 25 W.

Available in rack-mounting version.

Mounting: Flip-Tilt Case. Rack-mount version also available.

Dimensions (width x height x depth): Portable model, 8½ x 11½ x 7½ in. (210 x 295 x 190 mm); rack model, 19 x 10½ x 5 in. (485 x 270 x 130 mm).

Net Weight: Portable model, 9 lb (4.1 kg); rack model, 10 lb (4.6 kg).

Shipping Weight: Portable model, 12 lb (5.5 kg); rack model, 23 lb (10.5 kg).

Catalog Number	Description
1862-9703	1862-C Megohmmeter, Portable Model
1862-9844	1862-C Megohmmeter, Rack Model

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