

LOM-510B Series

Features and accessories to assure that very low resistance measurements are accomplished accurately, easily, and economically.

- 1 $\mu\Omega$ resolution
- 0.25% basic accuracy
- Four measurement modes
- Probes for chips and traces
- Cost-Effective Alternative for LOM-510A

HIGH PERFORMANCE LOW RESISTANCE MEASUREMENT

The LOM-510B has 3½ digits, 0.25% basic accuracy and 1 $\mu\Omega$ resolution. The unit has 5 ranges from 1.999 m Ω to 19.99 Ω . Its 4-terminal measurement technique eliminates lead resistance errors and 80 dB of ac noise rejection provides rock-steady readings even in noisy locations. The unit comes with rugged 4-terminal test clips and a large selection of optional probes, clips and fixtures allowing attachment to any low-resistance unknown



Included LOM 501
4 Terminal Kelvin Clips

Model LOM-510B Micro-ohmmeter shown with
provided LOM-501 Standard 4-Terminal Kelvin clips

SPECIFICATIONS

Range (Full Scale)	Test Current	Accuracy	Resolution
1.999 m Ω	1.5 A	0.25 % of Reading + 1 Count	1 $\mu\Omega$
19.99 m Ω	150 mA	0.25 % of Reading + 1 Count	10 $\mu\Omega$
199.9 m Ω	15 mA	0.25 % of Reading + 1 Count	100 $\mu\Omega$
19.99 Ω	1.5 mA	0.25 % of Reading + 1 Count	1 m Ω
19.99 Ω	0.15 mA	0.25 % of Reading + 1 Count	10 m Ω

Display: 3½ digit, with over-range indicator

Accessories Supplied: LOM-501 test clips., in carrying case

Power Requirements: 105-125 V or 210-250 V, 50-60 Hz, 120 W max; and included internal commercial rechargeable batteries, providing 8 hours of continuous operation after maximum 14 hour charge, or 1.5 hours of continuous operation when lowest measurement range is chosen. A 120/240 Vac, 60/50 Hz battery charger is provided.

Operating Temperature: 0 °C to +50 °C

Non-operating Temperature -40 °C to +71 °C

MIL-PRF-28800F, Class 3 Compliant

Calibration: Unit will operate to the published specifications for at least 2 years without the need for recalibration.

Dimensions: (approx): 22.9 cm W x 5.1 cm H x 27.9 cm D (9" x 2" x 11")

Weight (approx): 2.7 kg (6 lb).

ACCESSORIES

LOM-501 4-Terminal-Kelvin Clips: The Model 501 test clips are fully insulated and their 1/4 inch jaw openings will accommodate almost any electronic component. They have miniature tips for grasping very fine wires and other small items. Lead length is 1 m (39").

LOM 501A: Same as LOM-501; leads are 2 m (79") long.

LOM-502 4-Terminal Kelvin Clips: Pair of clips, same as Model LOM-501, but unwired.

LOM-504 4-Terminal Heavy-Duty Kelvin Clips: (Shown with Model LOM-510A Micro-ohmmeter, previous page, center). The Model LOM-504 probe set has 1.9 cm (1.75") jaw openings and 3.7 m (12') lead lengths that permit measurements on large bushings, welded and bolted joints, rails and pipes, transformers and motors, fuses, power distribution busses or nearly any other large electrical components.

LOM-506 4-Terminal Kelvin Microprobes: The Model LOM-506 microprobes permit measurement of chips, circuit board components, and fine conductor traces. They also make measurements possible in areas which are inaccessible to other probes, such as inside a connector. The finely-pointed, spring-loaded tips are on 1.27 mm (.05") centers. They are made from hardened beryllium copper, gold plated over nickel plate. They are replaceable

LOM-HC Hard Transit Case: The LOM-HC hard transit case is ideal for transporting the LOM-510B. The LOM-HC complies with MIL Standard MIL-PRF-28800F

