

Features

- 4½ digit LED display.
- Resolution 0.1 $\mu\Omega$ on 2 m Ω range.
- RS 232 PC Interface.
- True 4 wire resistance measuring technique
Eliminates lead resistance errors inherent in
Two wire Measurements systems.
- Pulse Mode Operation.



LR2045

Micro Ohm Meter

Motwane Digital Micro ohm meter-LR2045 is capable of the measuring very low resistance in micro ohms as low as 0.1 $\mu\Omega$. It is a 4½ digit; easy to use, low resistance measuring meter. LR2045 intends to replace the Kelvin Bridge and old technology micro ohm meters to increase the productivity and saving of man hours. This works on the proven principle of 4-wire measurements. The resistance measurement range of LR2045 is from 2m Ω to 2K Ω , with minimum resolution of 0.1 $\mu\Omega$. The maximum DC current injection is 1A. The pulse mode operation is an additional feature. The LR2045 can be used for measuring resistance of cables, PCB, Relays, LT busbars, low capacity motors, welded joints etc. This is provided with PC interface.

Applications

- Switches and Relay contacts.
- LT busbar and cable joints.
- Aircraft frame bonds and static control circuits.
- Integrity of welded joints .
- Quality control of resistive components.
- Rail and pipe bonds.
- Shunt and fuse resistance.
- Graphite electrodes and other composites.
- Wires and cables resistance.
- Lightning conductor bonding
- PCB



LR2045

Technical Specification

Measurements

Range	Max. Reading	Resolution	Max. DC Current Injected	Accuracy ±(%RDG + DIGITS)
2mΩ	1.9999mΩ	0.1μΩ	1A	±0.5%±5
20mΩ	19.999mΩ	1μΩ	1A	±0.05%±5
200mΩ	199.99mΩ	10μΩ	100mA	±0.05%±5
2000mΩ	1999.9mΩ	100μΩ	10mA	±0.05%±5
20Ω	19.999Ω	1mΩ	10mA	±0.05%±5
200Ω	199.99Ω	10mΩ	1mA	±0.05%±5
2000Ω	1999.9Ω	100mΩ	0.1mA	±0.05%±5

At 25° C ±5° C, 55%RH ±10%

Temperature Coefficient: 150 ppm / °C

Power Supply

- AC Mains : 230V±10% ,50 Hz

Physical Specifications

- Dimensions : 340mm x 258mm x 145 mm (D x W x H) Approx.
- Weight : Approx. 3.2 Kg.(only instrument)
- Gross weight : Approx. 5.2 Kg.(with accessories)

Safety

- Warm-up time for the : Five minutes max. stated accuracy
- Over range indication : Blinking Zero Display



Accessories

Standard Accessories

- One Set of Test leads (2 meter) with GP Kelvin clip.
- RS 232 cable
- Mains chord.
- Instruction Manual.

Optional Accessories

- Test leads 10 metre long with Heavy Duty Crocodile clip.
- 'C' clamp with 10 metre long leads.
- Test leads with Heavy Duty Bond testing probes.



Notes

1.The Instrument is accompanied with Test & calibration sheet. 2.Test Facilities can be provided at the factory with the available test set-ups only. 3.The Company's policy is continuous improvement of its products. we therefore reserve the Right of any deviation from illustration or specifications without notice. 4.Stated accuracies are valid from 1/10th of range to FS. 5.Accuracy Specified for temperature range of 25°C ± 5°C & 55%RH ± 10%.