



LR 2045-S

Micro Ohm Meter

CAT III	IP	CE	USB	Bluetooth
600V	51			

The Motwane LR 2045-S capable of measuring low resistance with 1 micro-ohm resolution. It employs the proven 4-wire (4W) measurement where fixed DC current is supplied to DUT and voltage drop across the DUT is measured and displayed as proportional resistance reading. The meter is able to deliver guaranteed stable readings on inductive as well as resistive loads.

Features

- ✓ Back-EMF Protection
- ✓ Best Measurement **Accuracy of $\pm 0.05\% \pm 5 \text{ dgt}$**
- ✓ **Resolution $1 \mu\Omega$ on $20 \text{ m}\Omega$ range**
- ✓ Designed according to IS 13875
- ✓ Inbuilt Thermal Paper Printer
- ✓ Temperature Measurement & Temperature Correction Feature.
- ✓ 4.3" Colour TFT Digit Large And Clear Display
- ✓ Accurate & Stable Readings
- ✓ PC Interfacing With Software
- ✓ 4 Wire Measurement Method
- ✓ Sealed Soft Touch Membrane Keypad
- ✓ Bluetooth Interface And Cloud Connectivity Through MOT-WARE App

Applications

- Hot & Cold Winding Resistance Measurement of Motors, Generators, Alternators, and Transformers.
- Contact Resistance Measurement of Fuses and Miniature Circuit Breakers.
- Resistance Measurement of Cables & Wires.

Technical Details

LR 2045-S

Technical Specification

Display	4.3" Color TFT with backlit
Temperature correction	Range 0 to 100 deg, Accuracy + 1 deg, Resolution 0.1deg.
Temperature Channel	1
Printer	Built in Thermal Printer
PC Interface	USB
Report Storage	1000 Reports

Indications

- 4.3" Color TFT with backlit or range and Ω /m Ω indications.
- LED indication for operation and pulse mode.
- Over range indication: Blinking zero display.
- Under Range Indication: All Display shows zero. (Not blinking)

Technical Specifications :

Range	Resolution	MAX CURRENT	ACCURACY \pm (%RDG + DIGITS)
20m Ω	1 $\mu\Omega$	1 A	\pm 0.05 % of reading \pm 5 digits
200m Ω	10 $\mu\Omega$	1 A	\pm 0.05 % of reading \pm 5 digits
2000m Ω	100 $\mu\Omega$	100mA	\pm 0.05 % of reading \pm 5 digits
20 Ω	1m Ω	10mA	\pm 0.05 % of reading \pm 5 digits
200 Ω	10m Ω	1mA	\pm 0.05 % of reading \pm 5 digits
2000 Ω	100m Ω	100uA	\pm 0.05 % of reading \pm 5 digits

Note : Accuracies are valid from 1/10th of the range to FS of range & valid

Temperature 25°C \pm 3°C at 55% \pm 10%RH.

Temperature Coefficient 100ppm/°C.

Open Circuit Voltage 15Volt \pm 3volt.

Power Supply Mains Input Voltage 115/230V AC,
50/60Hz

Environmental Specifications:

Operating Temperature	0°C-55°C.
Storage Temperature	-10°C to 60°C.
Relative Humidity	95 % RH at 40°C max. (Non Condensing)

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 includes continuous improvement of its product. We, therefore, reserve the right of any deviation from illustration or specifications without notice. 4. Stated accuracies are valid from 10% of the range to 95% of the range. 5. Accuracy specified for temperature range of 25°C \pm 5°C & 55% RH \pm 10%.

Safety

Measurement Category: CAT II (1000V)/CAT III (600V)
Reinforced insulation, IP 51
Relevant Standard Specifications: Safety According to
EN 61010-1, EMC According to EN 61326-1

Protection

Protection against EMF : 12kV-(1.2/50 μ s pulse).
Instrument Protected against mains overload
(Fuse 250mA)
All ranges are fuse protected. (Input fuse 1A).

Physical Specifications:

Dimensions : 368 mm (L) X 283 mm (W) X 188 mm (H)
Net Weight : 6.0kg (Approx)

Accessories

Standard

■ Test Lead Set 2 Meter	: 1 Set.
■ Mains Power Cord	: 1 No.
■ Fuse - 500mA 250V Slow Blow	: 1 No.
■ Fuse - 1.5A 250V Quick Blow	: 1 No.
■ Thermal Paper roll	: 1 No.
■ Instruction Manual	: 1 No.
■ Calibration Certificate	: 1 No.
■ USB Cable	: 1 No.
■ Temperature Measurement Probe	: 1 No.
■ Pen Drive with Software	: 1 No.

Note :

- Bluetooth Software (Optional)
- MOT-WARE Desktop Application (Optional)

ORDERING INFORMATION

Product	Order Code
LR2045-S with Standard Accessories	109290010