





Connected to Cloud

### **Features**

- ✓ Back-EMF Protection
- ✓ Best Measurement Accuracy of 0.05% ± 5 dgt
- $\checkmark$  Resolution 1 μ $\Omega$  on 20 m $\Omega$  range
- ✓ 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 Motware App

# LR 2045-S

**Micro Ohm Meter** 







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.

## **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  $\Omega/m\Omega$  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 ± (%RDG + DIGITS)
20mΩ	1μΩ	1 A	$\pm0.05\%$ of reading $\pm5$ digits
200mΩ	10μΩ	1 A	$\pm$ 0.05 % of reading $\pm5$ digits
2000mΩ	100μΩ	100mA	$\pm$ 0.05 % of reading $\pm5$ digits
20Ω	1mΩ	10mA	$\pm$ 0.05 % of reading $\pm5$ digits
200Ω	10mΩ	1mA	$\pm$ 0.05 % of reading $\pm5$ digits
2000Ω	100mΩ	100uA	$\pm$ 0.05 % of reading $\pm5$ digits

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

Temperature	25°C <u>+</u> 3°C at 55% <u>+</u> 10%RH.
Temperature Coefficient	100ppm/°C.
Open Circuit Voltage	15Volt <u>+</u> 3volt.
Power Supply	Mains Input Voltage115/230VAC,
	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)

### **Safety**

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

#### **Protection**

Protection against EMF: 12KV-(1.2/50Q sec.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)
- Motware Desktop Application (Optional)

Note: To learn more about the Motware Application, check Page 46

ORDERING INFORMATION	
Product	Order Code
LR2045-S with Standard Accessories	109290010