



## **Features**

- 4.3" Color TFT display with backlit
- $\checkmark$  Resolution 0.1 μ $\Omega$  on 2 m $\Omega$  range
- ✓ Best Measurement Accuracy of +0.03 %
- Mains cum Battery operated.
- High measurement current (10A) for faster settling of measured values on low resistance.
- ✓ True 4 wire resistance measuring technique
- Pulse Mode, Auto Hold Operation.
- Bluetooth interface and cloud connectivity through Motware app
- ✓ Inbuilt thermal paper printer
- Low Battery indication to prevent deep discharge of internal recharging battery.
- ✓ Temperature Measurement & Correction

# **MCRM**

### **Conductor Resistance Meter**



Motwane Conductor Resistance Meter determines the DC resistance of conductors for plain copper, metal coated copper, aluminium and aluminium alloy, circular or shaped. MCRM is provided with maximum 10 A current injection which is usefull for the measurement of very low resistance from  $0.1\mu\Omega$  and works on true Four terminal measurement. The MCRM have 4.3" Color TFT display with backlit display and features like Temperature measurement & Correction, Length Correction facility and protection against back EMF for high inductive loads.

## **Applications**

High Precise micro ohmmeter used for measuring accurate low resistance with high accuracy, makes it a reliable tool for Quality Assurance, easy operation and also makes it a very handy for quick maintenance checks for process industries. Typical It is very useful in design, test, maintenance, QC/QA and production.

Conductivity measurement of cables





### **Technical Details**

#### **MCRM**

### **Specifications**

Printer	Built in Thermal Printer
PC Interface	USB
Report Storage	1000 Reports
Temperature correction	Manual entry or Temperature Probe
Temperature Channel	1
Dimensions Device	368 mm(L) X 283 mm(W) X 188 mm(H) Approx.
Weight	5.5 Kg Approx. (with Test Lead)
Dimensions Wire Fixture	1210mm(L) X 210 mm(W) X 150 mm(H) Approx.
Weight	6 Kg Approx.

#### **Environmental**

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

### **Power**

Mains Power Supply	Mains Input Voltage 110/230 Volt AC, 50/60Hz
<b>Battery Power Supply</b>	Li-Ion Battery 14.8 V

### **Electrical Specifications**

Test Current Injection	10A, 1A, 100mA, 10mA, 1mA, 100μA
Test ON Alert	BEEP

## **Resistance Range**

Range	Max Reading	Resolution	MAX CURRENT	ACCURACY ± (%RDG + DIGITS)
2mΩ	1.9999mΩ	0.1μΩ	10A	$\pm0.03$ % of reading $\pm4$ digits
20mΩ	19.999mΩ	1μΩ	1 A	$\pm0.03$ % of reading $\pm4$ digits
200mΩ	199.99mΩ	10μΩ	100mA	$\pm0.03$ % of reading $\pm4$ digits
2Ω	1.9999Ω	100μΩ	10mA	$\pm0.03$ % of reading $\pm4$ digits
20Ω	19.999Ω	1mΩ	100mA	$\pm0.03$ % of reading $\pm4$ digits
200Ω	199.99Ω	10mΩ	10mA	$\pm0.03$ % of reading $\pm4$ digits
2000Ω	1999.9Ω	100mΩ	1mA	$\pm0.03$ % of reading $\pm4$ digits
20ΚΩ	19999Ω	1Ω	100μΑ	$\pm0.03$ % of reading $\pm4$ digits

### 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

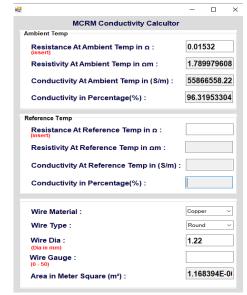
### **Accessories**

#### Standard

Test Lead set 2 meter	: 01 Set.
Wire Test Jig	: 01 No.
Jaw for triangular DUT	: 02 Nos.
Mains Power Cord (1.5 meter)	: 01 No.
Mains Protected Fuse 1A	: 01 No.
Current Protection Fuse 15A	: 01 No.
Thermal Paper roll	: 01 No.
Instruction Manual	: 01 No.
Calibration Certificate	: 01 No.
■ USB cable (1.5 meter)	: 01 No.
■ Temperature probe (3 meter)	: 01 No.
Pen drive with PC software's	: 01 No.

#### Note:

- Motware Desktop Application (Optional)
- Bluetooth Software (Optional)



Conductivity Calculation through PC Interface



Accessories

ORDERING INFORMATION		
Product	Order Code	
MCRM with Standard Accessories	109228210	

**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  $25^{\circ}\text{C} \pm 5^{\circ}\text{C} & 55^{\circ}\text{RH} \pm 10\%$ .