

# MR43

## Auto Ranging Surface Resistivity Checker



The MR43 is an affordable and reliable surface resistance tester for checking surface resistance and ground resistance. Pressing the test button automatically generates a test voltage of 10V or 100V, and the instrument can be used for performance evaluation tests on different work surfaces, floors, chairs, carts, clothing, and packaging materials. Measurements can be made using the built-in measuring electrode on the bottom of the instrument, or in combination with other probes.

### ★ Featured Functions

- Digital display, high precision**  
 The resistance values are clearly visible
- Fully automated measurements**  
 The resistance range and test voltage are automatically selected for you
- Complies ANSI/ESD S20.20 and IEC61340-5-1**  
 Meets the general specifications for anti-static detection
- Temperature and humidity measurement**  
 Resistance measurements are important
- Long-lasting lithium battery**  
 There is no need to remove the battery
- Innovative interface design**  
 Rugged, high-performance test leads
- Abundant probes (optional)**  
 Built-in parallel resistivity probe for use with 5lb weight, two-point probe, or concentric ring probe

### 📄 Specifications

Model	MR43
Range	$1.0 \times 10^3 \sim 1.0 \times 10^{12}$
Accuracy	$\pm 10\%$ , $\pm 20\%$ ( $\geq 1.0 \times 10^{11}$ )
Displayed	LED
Test Voltage	10V or 100V $\pm 5\%$ (Auto)
Test Mode	CONT
Battery	2×3.7V Li-ion battery
Standby	480 hours standby or about 8000 measure
Alarm	Voltage less than 30% of total charge
Interface	TYPE C
Environment	Temp: 0 to 50°C Humidity: 35 to 80%RH
Weight	285g
Warranty	One-year

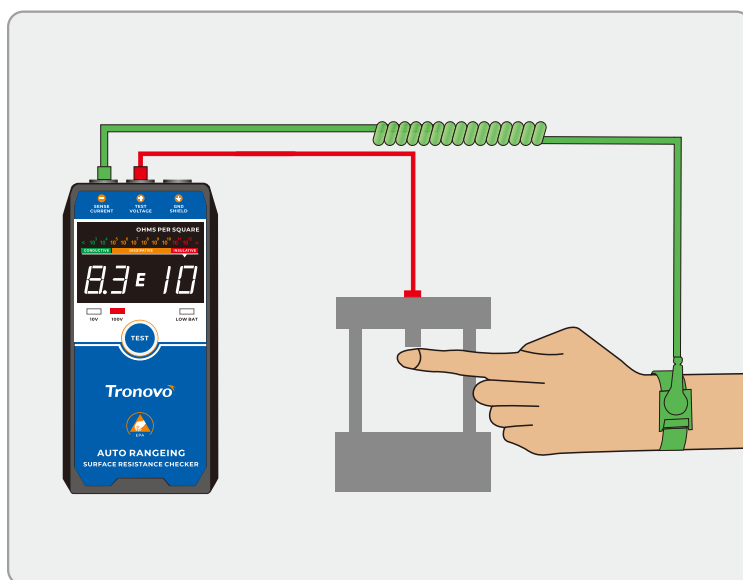


## Table of limits of controlled substances

Anti-static Items	Product Approvals / Limit Requirements	
All Types Of Floors	$10^4 \sim 10^{10}$	Point-to-point resistance
Working Surface	$10^5 \sim 10^9$	Point-to-point resistance
All Kinds Of Walls	$10^5 \sim 10^{10}$	Surface resistivity
Seats, Running Cars	$10^5 \sim 10^{10}$	Point-to-point resistance
Smock	$10^5 \sim 10^{10}$	Point-to-point resistance
Gloves, Finger Covers	$10^5 \sim 10^9$	Point-to-point resistance
Anti-static Tools	$10^9$	Point-to-point resistance
Store Shelves	$10^5 \sim 10^9$	Point-to-point resistance
Shoe Harness (socks)	$10^5 \sim 10^9$	Point-to-point resistance
Curtain	$10^5 \sim 10^{10}$	Point-to-point resistance
Equipment	$10^5 \sim 10^9$	Point-to-point resistance
Antistatic Agents	$10^5 \sim 10^9$	Surface resistivity
Conveyor Belts	$10^5 \sim 10^9$	Point-to-point resistance

## Resistance test of gloves and finger cuffs

ANSI/ESD SP15.1 specification, wear gloves or finger gloves and anti-static wrist straps, touch the lower contact of the electrode with your fingers, lift the entire electrode, and test the resistance value.



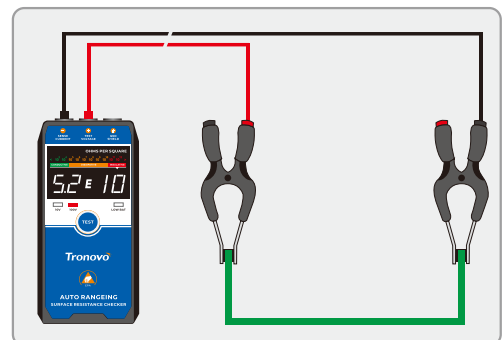
## Electrode/resistivity measurement

The parallel electrode method meets the requirements of the ASTM-D-257 standard and can be used to quickly measure the surface resistance of flat materials.



## Irregular material resistance test

SAEJ645 specification, the clamp electrode is clamped at both ends of the material to be measured, and the clamp electrode is suspended to measure the resistance value.



## Human body + shoes + floor test

ANSI/ESD STM97.1 specification, 1 weighted electrode is placed on the anti-static floor, and the hand-held grip electrode measures the grounding resistance of the human body.

