

# TP1000 Surface Resistance Tester



## 1. Summary

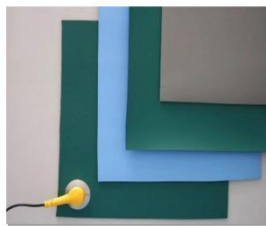
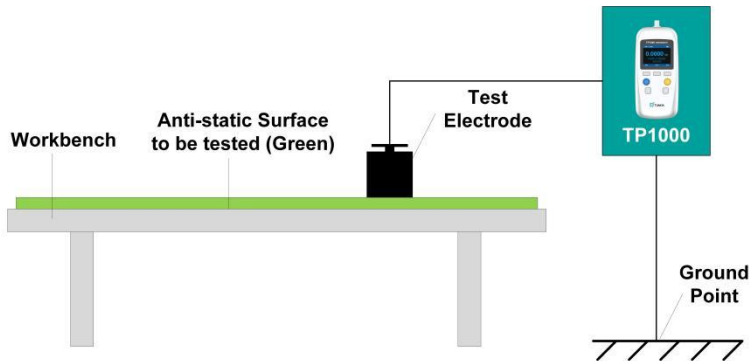
**TP1000** is a handheld Surface Resistance Tester dedicated to detecting surface resistance and electrostatic leakage resistance, which can accurately measure surface resistance and electrostatic leakage of  $10^3 \sim 10^{12} \Omega$ . The resistance value can also complete the measurement of temperature and humidity in the test environment. The measurement uncertainty of resistance measurement is 5%.

## 2. Features

- Resistance measurement range:  $10^3 \sim 10^{12} \Omega$
- 10 V / 100 V test voltage
- Battery-powered, replaceable battery.
- LCD color screen.
- Data storage function, support Type-C interface to export data files.
- Internal communication interface, convenient to connect to printers.
- It can be connected to an external temperature and humidity sensor to measure and record the temperature and humidity of the environment.

### 3. Application

#### ☆ Test Electrostatic Leakage Resistance and Surface Resistance



Anti-static Mat



Anti-static Floor



Anti-static Paint



Anti-static Gloves, Bracelets, Clothes, Shoes, etc.

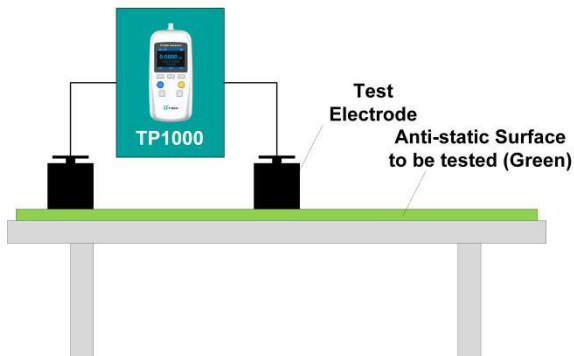


Fig.(a) Side View

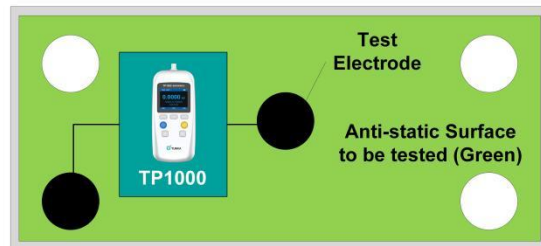


Fig.(b) Top View

- Under the test voltage of 10 V / 100 V, the resistance measurement range is  $10^3 \sim 10^{12} \Omega$ ;
- Measurement uncertainty: 5%.

## 4. Characteristics

### ☆ Portable Design



- Handheld host, large LCD color screen, rechargeable battery power supply, small size, light weight, convenient to complete the resistance test on site.
- Equipped with portable instrument case, it can store the host, heavy hammer electrode, test line, printer and other accessories.

### ☆ Connect to PC to Print Labels



- With a Type-C interface, the device can be connected to a notebook for data transmission and operation to print test result labels.

### ☆ Temperature and Humidity Test

- Built-in ambient temperature and humidity measurement function, connecting temperature and humidity probes can realize on-site environmental condition measurement.



## 5. Specifications

### 5.1 Resistance Measurement

Resistance Range ( $\Omega$ )		1.000 0 k <math>R \leq 1.000 0 T</math>
Resolution		0.1 $\Omega$ ~ 100 M $\Omega$
Test Voltage		10 V / 100 V
Optimal Measurement Uncertainty		5% *RD
Displays Digits		5-digit decimal display
Test the Electrodes	Weight	2.5 kg $\pm$ 0.3 kg
	Contact Surface Diameter	50mm~64mm
	Total Resistance of Conductive Rubber	< 1000 $\Omega$

### 5.2 Temperature and Humidity Measurement

- Relative humidity: 10% ~ 80% RH, measurement uncertainty: 5% \* RD
- Temperature measurement: 0°C ~ 50°C, measurement uncertainty: 5% \*RD

## 6. General Specifications

Power Supply	Rechargeable battery powered
Warm-up Time	10 minutes
Maximum Power Consumption	100 VA
Temperature Performance	Working temperature: 0°C~45°C; Storage temperature: -20 °C ~ 70 °C
Humidity Performance	Operating humidity: < 80% @ 30°C, < 70% @ 40°C, < 40% @ 50°C Storage humidity: (20% ~ 80%) R·H, no condensation
Altitude	< 3000 m
Instrument Quality	Approx 0.5 kg
Communication Interface	Type-C