

SR-496 Surface Resistance Meter

Instruction Manual

The surface resistance can be measured by attaching two parallel electrodes of the instrument to the surface of the measured object. Thus you can determine whether the measured object is a conductor, anti-static material, or an insulator. The instrument is particularly suitable for a variety of anti-static areas.

A. Specifications of SR-496

Resistance Measurement Range	$0.1 \times 10^3 \sim 1.5 \times 10^{12} \Omega$
Resistance Measurement Accuracy	$< \pm 10\%$
Response Time	Approx. 1 sec.
Temperature Measurement Range	$0^\circ\text{C} \sim +50^\circ\text{C}$ ($+32^\circ\text{F} \sim +122^\circ\text{F}$)
Temperature Measurement Accuracy	$\pm 1^\circ\text{C}$ ($\pm 1.8^\circ\text{F}$)
Power Supply	One 9V battery
Dimension	64 x 35 x 126mm (2.5" x 1.2" x 5.0")
Weight	Approx. 156g (battery included)

B. Material Resistance Range

Conductor	$< 10^6$
Anti-Static Material	$10^6 \sim 10^{11}$
Insulator	$\geq 10^{12}$

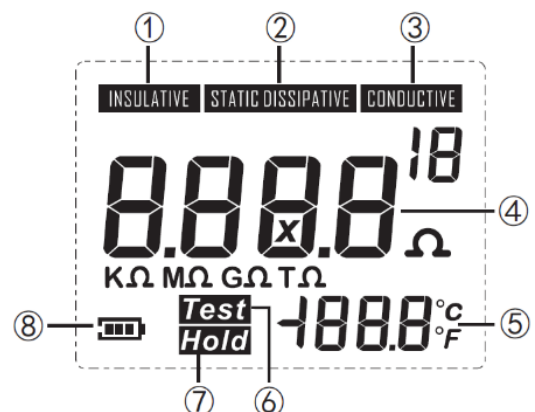
※The signal is weak when measure surface resistance of $10^{11} \Omega$ or more, in order to ensure stable and reliable measurement, it is necessary to make environment where electromagnetic interference is small. During the measurement process, make sure that no person walks within 3 meters.

C. Function

- ▶ Surface resistance test
- ▶ Three ways to display the surface resistance or material properties simultaneously
- ▶ Environment temperature measurement
- ▶ Temperature unit conversion
- ▶ Data hold
- ▶ LCD backlight
- ▶ Auto turn off

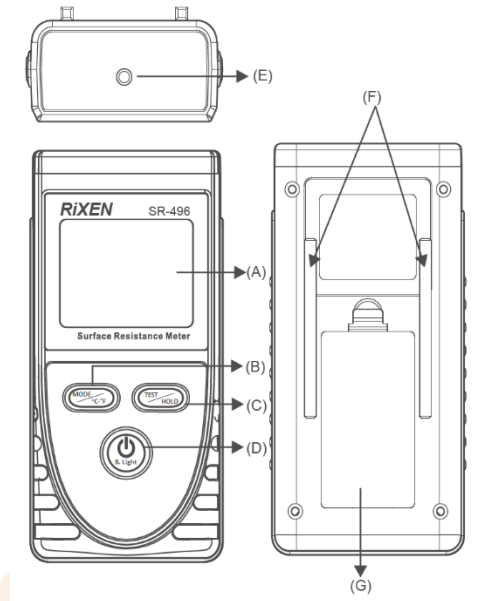
D. LCD Display (Please see the right photo.)

- ① Insulation material indicator
- ② Anti-static material indicator
- ③ Conductor indicator
- ④ Resistance value
- ⑤ Temperature value
- ⑥ Resistance measurement indicator
- ⑦ Data hold indicator
- ⑧ Battery indicator



E. Instrument Description (Please see the right photo.)

- (A) LCD display
- (B) Conversion of resistance mode and temperature unit
- (C) Resistance measurement and data hold
- (D) On/off button and backlight button
- (E) Ground wire jack
- (F) Measurement electrode
- (G) Battery cover




F. Operation Instruction

1. Power On

Press "  " button to turn on the instrument. About 1 sec., the instrument will be ready to measure.

2. Resistance Display Mode

Press "  " to switch the resistance display mode: Order of magnitude mode/conventional mode.


3. Backlight

After power on, press "  " button to turn on/off the backlight.

4. Temperature Unit Conversion

Long press "  " button to switch the temperature units: Celsius (°C) and Fahrenheit (°F).

5. Resistance Measurement

After turning on the instrument, put the instrument on the surface of measured object, press and hold "  " key to start measurement, at the same time, the "TEST" indicator will be displayed.

During measurement, resistance display area displays "----" (on normal mode) or "--x-" (on order of magnitude mode), indicating that the instrument is measuring.

After the resistance value is measured, the resistance value will be displayed in resistance display area.

When the resistance value is higher than measurement range, resistance display area will show "HI".

When the resistance value is lower than the measurement range, the "Lo" will be displayed.

After releasing the measurement button, the measurement will finish and the data will be held,

"HOLD" indicator shows up simultaneously.

6. Shutdown

After power on, long press "  " button to shut down.

If there is no operation within 30 seconds, the instrument will shut down automatically.

※Specific Declarations :

Our company shall hold no any responsibility resulting from using this product as a direct or an indirect evidence. We reserve the right to modify product and specification without notice.