

# STATICO

Global Supplier of Static Control & Cleanroom Products

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## Product Specifications for S2010 Surface Resistivity/Resistance Checker

### Description

The S2010 is a hand held instrument that checks surface resistivity and resistance to the ground. The checker, with two brass bars, employs the ASTM Standard D-257 method of parallel bar sensing.

### Specifications

Power Supply	9 V Alkaline Battery
Test Voltage	Nominal 9 V
Temperature Range	Operating: 40° to 120°F (5°-to-49°C) Storage: -15° to +60°C
Relative Humidity	0% to 90% (non-condensing)
Resolution	One Order of Magnitude
Changeover Point (3.16X10n)	½ Decade on a Logarithmic Scale
Changeover Point Accuracy	± ½ Decade
Accuracy	10%
Repeatability	± 5%
Weight	6 oz.
Dimensions	130 mm X 70 mm X 25mm



### Operation

#### **Battery Check**

Remove the battery compartment end panel and check that a good 9V alkaline battery is in place. Hold the checker away from any surface and press the test button, the insulative red LED should light, indicating the battery is good. Another option is a battery with a self-checker.

#### **Surface Resistivity**

Place the checker onto the surface that requires testing, press and hold the test button. The LED that illuminates constantly is the decade measured.

10E3=	1 kilohm	Green LED
10E4=	10 kilohm	Green LED
10E5=	100 kilohm	Green LED
10E6=	1megohm	Yellow LED
10E7=	10 megohm	Yellow LED
10E8=	100 megohm	Yellow LED
10E9=	1,000 megohm	Yellow LED
10E10=	10,000 megohm	Yellow LED
10E11=	100,000 megohm	Yellow LED
10E12=	1,000,000 megohm	Yellow LED
>10E13=	Insulative	REDLED

### Resistance to Ground

Insert the ground lead (included) into the ground socket. This isolates the test probe on the right side of the meter (the same side as the right socket). Connect the alligator clip to the ground connection. Place the checker on to the surface to be tested, press and hold the test button. The LED that illuminates constantly is the decade measures. The measurement will be resistant to ground in ohms instead of ohms/square.

### Calibration

The checker should be calibrated every twelve months, on average.