

## MONROE 291

Portable survey instrument for evaluating resistive properties of static control products such as static dissipative packaging, flooring, or work surfaces.



### AT A GLANCE

The Monroe 291 is a portable, battery-operated survey instrument for evaluating the resistive properties of static control products such as static dissipative packaging, flooring, or work surfaces over the range of  $10^3$  to  $10^{12}$  ohms or ohms per square

The Monroe 291 uses a parallel electrode configuration conforming to ASTM D-257. It also accepts external electrodes for point-to-point and resistance-to-ground measurements. A test lead is included for resistance-to-ground measurements. Simply place the Monroe 291 directly on the item to be measured. An easy-to-read, color-coded LED decade display quickly and clearly indicates the resistivity or resistance range.

#### Range

**$10^3$  to  $10^{12}$  with LEDs for underrange and over-range**

#### Accuracy

**$\pm 1/2$  decade**

### PRODUCT HIGHLIGHTS

- Twelve LED color-coded display to accurately and quickly show measured decade values
- Measures both resistivity and resistance-to-ground
- Ranges  $10^3$  thru  $10^{12}$
- Easy-to-use
- Battery powered
- Pocket-sized convenience
- Inexpensive, reliable

## TECHNICAL DATA

Performance Specifications	
Range	10 <sup>3</sup> to 10 <sup>12</sup> with LEDs for underrange and over-range
Accuracy	±1/2 decade
Temperature	0 to 40°C (32 to 104°F)
Humidity	10 to 75% RH
Applied Voltage	10 volts @ 10 <sup>3</sup> to 10 <sup>5</sup> 100 volts @ 10 <sup>8</sup> to 10 <sup>12</sup>
Display Type	Multi-colored LEDs (green-conductive, yellow-dissipative and red-insulative)
Electrodes	Parallel bar type (jacks for external connections)

  

Mechanical Specifications	
Dimensions	6.5 x 13 x 3 cm (2.6 x 5 x 1.2 in)
Weight	235 g (8.4 oz), including battery
Battery Type	9 V, Eveready #522 or equivalent NEDA #1604A

## EASY-TO-USE OPERATION

To measure surface resistivity of a flat sample of material simply place the instrument on the material so that these rails are in contact with the material and press the TEST button. To make surface-to-ground or point-to-point measurements, make connections to one or both of the banana jacks on the end of the instrument. When a banana plug is inserted, the corresponding contact rail is disconnected.

### High Performance

The Monroe 291 resistivity meter fills the void between lower performance, albeit slightly lower cost and high-end, more expensive test instruments. This pocket-sized meter has parallel metal contact rails and jacks for connections to external electrodes or ground. Using a single 9-volt alkaline battery, the unit automatically generates a test voltage of either 10v or 100v. You place the instrument on a flat surface (2 inches by 25/8 inches or larger) of material to be tested, press the button, and read the results from the multi-colored LED display. It comes with a carrying case, ground lead and calibration certificate.

- **Measures surface resistivity of flat material samples** – contact rails built into base of instrument
- **Measures resistance** – using external connections to banana jacks



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### PRECISION | POWER | PERFORMANCE

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