

# STANDARDS LAB RTD SIMULATORS



## Standards Lab RTD Simulators

## Models 5123—5126

Lab-quality RTD simulation

Accuracy from  $\pm 0.02\%$  to  $\pm 0.005\%$

Gold-plated, low-resistance contacts

0.001-ohm resolution

Okay, RTD simulators aren't very pretty and not much has changed about them over the last 100 years or so, but that's good because our customers really love these little boxes and nothing beats their accuracy.

The **Model 5125** has the best combination of accuracy,  $\pm 0.005\%$ , and resolution, 0.001 ohms. These are designed with "no adder accuracy," and the range is 10 to 1,111.11 ohms.

The **Model 5124** has a lower accuracy,  $\pm 0.01\%$ , with the same resolution and range as the Model 5125 but with a lower price.

The **Model 5123** is designed for use with 1000-ohm platinum RTDs. It has the same accuracy as the Model 5125 but with a resolution of 0.01 ohms and a range to 11,111 ohms.

The **Model 5126** has an accuracy of  $\pm 0.02\%$ , a resolution of 0.01 ohms, and a

range of 20 to 1,121 ohms. It's easy to use and, because of its smaller size, makes a great field calibration tool.

While General Resistance does not put any bells or whistles on these boxes, there's no need to calculate or compensate for the error contribution due to contact resistance or "0" resistance because there is no "0" resistance. The Waidner-Wolf shunt design reduces these errors to a level of insignificance. These instruments are about absolute accuracy when only maximum accuracy will do.

Calibrate your lab or field RTD meters with one of our RTD simulators. You won't find a more accurate resistance simulator that's this easy to use.

## Specifications

Resistance Range	<b>5123:</b> 100 $\Omega$ to 11,111 $\Omega$
	<b>5124:</b> 10 $\Omega$ to 1,111 $\Omega$
	<b>5125:</b> 10 $\Omega$ to 1,111 $\Omega$
	<b>5126:</b> 20 $\Omega$ to 1,121 $\Omega$
Resolution	<b>5123:</b> 0.01 $\Omega$
	<b>5124:</b> 0.001 $\Omega$
	<b>5125:</b> 0.001 $\Omega$
	<b>5126:</b> 0.01 $\Omega$
Absolute Accuracy	<b>5123:</b> $\pm 0.005\%$
	<b>5124:</b> $\pm 0.01\%$
	<b>5125:</b> $\pm 0.005\%$
	<b>5126:</b> $\pm 0.02\%$
Maximum Current	10 $\Omega$ to 99.9 $\Omega$ , 75 mA; above 100 $\Omega$ , 25 mA
	( <b>5126:</b> 20 $\Omega$ to 99.99 $\Omega$ , 50 mA; above 100 $\Omega$ , 15 mA)
Number of Decades	Six ( <b>5126:</b> five)
Switch Life Rating	> 100,000 ( <b>5126:</b> > 50,000)
Resistor Temp. Coefficient	3 ppm/ $^{\circ}\text{C}$ typical, 5 ppm max.
Resistor Stability	$\pm 10$ ppm/24 hours, $\pm 35$ ppm/1 year
Maximum Power	100 mW
Breakdown Voltage	750 VRMS
Operating Temperature	$-55^{\circ}\text{C}$ to $75^{\circ}\text{C}$
Dimensions	4" H x 17" W x 3.12" D; 102 x 432 x 79 mm
	( <b>5126:</b> 3" H x 5" W x 4" D; 76 x 127 x 102 mm)

## Ordering Information

5123	RTD Simulator
5124	RTD Simulator
5125	RTD Simulator
5126	RTD Simulator



Read about our accredited calibration services on page 156.



Read about our calibration training courses on page 152.