

# SAS-3 3000 Ohm Thermistor Resistance Values

## For Troubleshooting Thermistor Response

Troubleshooting 3K thermistors is a simple task and requires only a basic handheld ohmmeter or digital multi-meter. The resistance of the thermistor will change according to temperature, and should track with the following table.

For a given resistance, the temperature should be accurate to +/- 0.6°F.

The thermistor MUST be disconnected from the control for proper measurement. We also recommend disconnecting the thermistor from any extension wire (if equipped) to further rule out any possible wiring issues.

The thermistor will read 3000 ohms at 25°C/77°F. Refer to the chart below for the resistance at other temperatures.

<b><u>Temperature vs. Resistance Chart</u></b>		
<b><u>SAS-3 3000 Ohm Sensors</u></b>		
<b>° F</b>	<b>° C</b>	<b>Ω Resistance</b>
<b><i>Open</i></b>		<b><i>Infinite</i></b>
32	0	9,810
41	5	7,620
50	10	5,970
59	15	4,710
68	20	3,750
77	25	3,000
86	30	2,420
95	35	1,960
104	40	1,600
113	45	1,310
122	50	1,080
131	55	879
140	60	747
149	65	624
158	70	525
176	80	378
194	90	275
212	100	204
<b><i>Short</i></b>		<b><i>None</i></b>

*Thermistor Values Table from Heliotrope General*

