



Airflow Sensor:

The airflow sensor is a device that protects the heater element section from overheating. If there is a lack of proper airflow, the controller and the airflow sensor will make the unit modulate proportionally with the airflow. This simply means that if the element section is getting half of the needed airflow, the heater will work at half the capacity. This prevents overheating of the elements which would damage them. **Note:** With zero airflow, the heating will not immediately be limited. Once heating has begun however, the airflow sensor will detect abundance/uncirculated heat and then it will limit heat proportionally to this limited airflow.

To test this device, simply disconnect the two leads from the 'A' and 'A' terminals on the controller. With an ohmmeter measure the ohms across the two leads. Since we are measuring a thermistor, the typical expected value will vary with the ambient temperature. Typically, at room temperature, the reading should be at around 10K ohms. Please note that the resistance of the thermistor will go up if the temperature goes down and if the temperature goes up, the resistance will go down.

If the readings are an open line or a really low value (such as 100 ohms or less), the airflow sensor is defective and has to be replaced. Also, if the

airflow sensor has a short in its connections, the device will prevent the controller in place from working.

