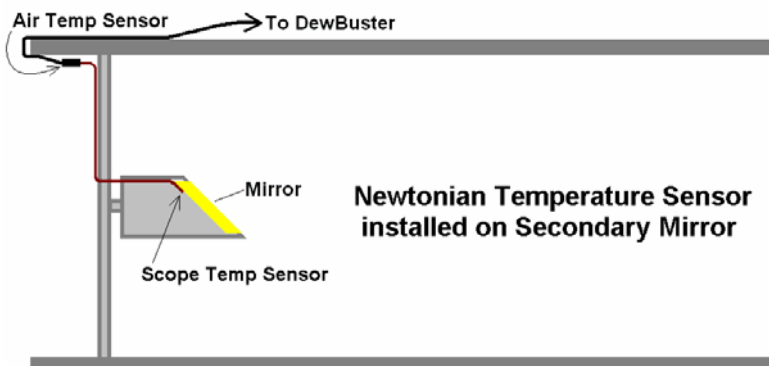


Newtonian Temperature Sensor

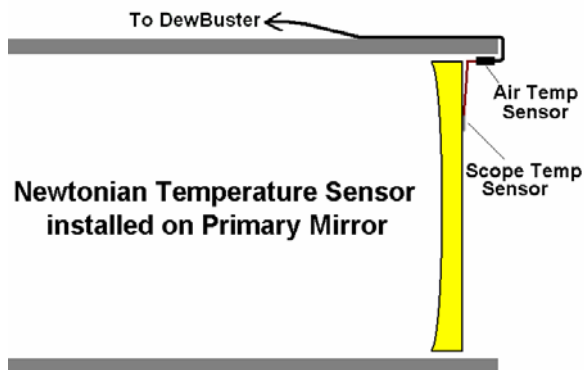
The standard SCT/Refractor Sensor clips to and relies upon the heater strip to hold it in place. For applications where a heater strip is not used, a Newtonian Sensor is better suited because the tip is smaller which can be attached to the back of the mirror with epoxy or other means. The cable has two temperature sensing points, the Air Sensor and the Scope Sensor.

The **Air Sensor** is located within the black band where the brown wire joins the gray cable to the DewBuster™ controller. The Air Sensor may be located inside or outside of the telescope tube as long as it is exposed to the air. Keep the Air Sensor from touching the telescope or any objects. Also keep it away from any heaters or places where your body might touch it.

The **Scope Sensor** is at the tip of the brown thermocouple wire where the two wires twist together. The user must determine the best method of keeping the Scope Sensor in contact with the mirror (epoxy is commonly used). It is important to note that the Scope Sensor generates a small electrical voltage and must not touch any grounded surface (a ground will cause both the AUTO and AUX lights to remain on constantly). The brown wire between the Air and Scope Sensors does not measure temperature and may be fastened to the telescope or twisted around components to secure it in place. The brown wire may be shortened if desired by simply cutting and twisting the wires together. Trim the twist to a length of ¼" or less.



The diagram above shows sensor installation on the secondary mirror. The heater is not shown, but it would normally be mounted on the back side of the mirror. If desired, the brown sheathing may be removed from the wires to provide less obstruction of the light path.



The diagram above shows sensor installation on the primary mirror.

NOTE: Primary mirror heaters are not normally needed when the fans are run continuously and a shroud is used because the air flow keeps the mirror at air temperature and the shroud acts as a long dew shield.

For further guidance, please contact Tech Support at www.dewbuster.com with details of your particular installation.