PLACEMENT OF FEEDBACK THERMISTORS IN WARNER PLATFORMS

Warner P, PH, and PM Series platforms commonly use two thermistors for their operation. These are the FEEDBACK and MONITOR THERMISTORS. The use of these two thermistors in concert allows the user to establish and maintain tight control of the temperature, at the sample, in the experiment. In general, the FEEDBACK THERMISTOR aids in controlling the temperature of the platform and the MONITOR THERMISTOR monitors the temperature of the sample. Using a temperature controller, the user drives the platform to whatever temperature is needed to maintain the sample at the desired temperature.

The FEEDBACK THERMISTOR is easily recognized as it is encased in white plastic. The FEEDBACK THERMISTOR insertion hole is located on the side of the platform (all modes) and is sized to closely fit this thermistor (see Figure 1). The temperature controller uses information provided by the FEEDBACK THERMISTOR to maintain the platform at the set temperature.

**NOTE:** Thermal contact between the platform and FEEDBACK THERMISTOR can be improved by adding a small amount of mineral oil to the hole before thermistor insertion.

The MONITOR THERMISTOR is placed in any region of interest by the user and provides the user with the actual temperature at that point. See Figure 2 for an example.

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**Figure 1.** Feedback thermistor placement

**Figure 2.** Monitor thermistor placement