

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.

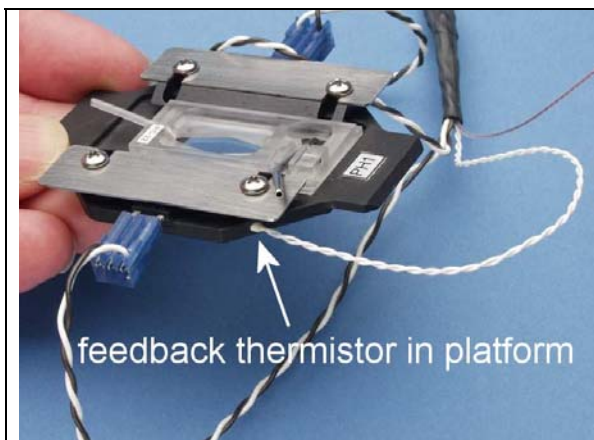


Figure 1. Feedback thermistor placement

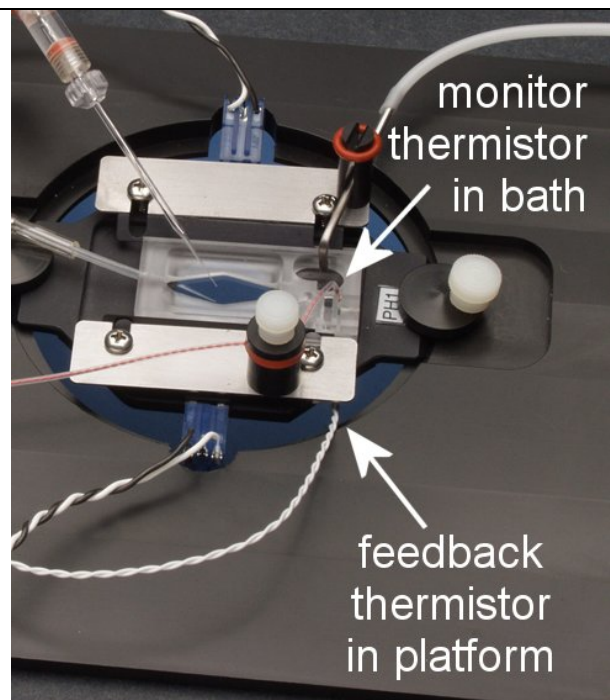


Figure 2. Monitor thermistor placement