

Bimetal Thermometer

Type TBI

Operating Conditions.

The temperature of the thermometer case should not be allowed to exceed 90°C (65°C if silicone filled). Stems should not be exposed to continuous temperatures exceeding 50% over-range, or 425°C.

Immersion.

For correct temperature measurement, the stem of all models in all ranges must be immersed 2" (50mm) in liquid, and 4" (100mm) in gas except for 0 - 50°C which require 3 ½" (80mm) in liquid and 5" (130mm) in gas.

Thermowells.

Thermowells should be used whenever the stem would be exposed to pressure, corrosion, or shear forces. They are also required if the thermometer is to be used in a sanitary environment or when calibration is required in mid process.

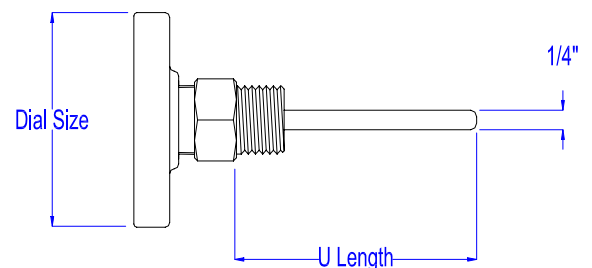
Installation.

Install the thermometer in to the process fitting or thermowell. Tighten the hex screw, using an open-end wrench of the appropriate size. Continue to tighten the hex shank until the head is facing the desired position and sufficiently tight to prevent leaks.

Note: The connection is a pipe thread. The thread should be prepared as necessary, to prevent leaking of the process fluid.

Installation in Thermowell.

1. Install the thermowell into the process so a tight, non-leaking fit is achieved.
2. Coat the thermometer stem with a suitable heat transfer compound.
3. After coating the thermometer stem, install the thermometer as stated above.



Maintenance.

Cleaning:

1. Keep dial lens clean for proper viewing. Clean using commercial window cleaner.
2. Periodic cleaning of residue from the stem may be required to ensure the thermometers sensitivity if installed without a thermowell.

Calibration: (Periodic calibration should be as determined by the user).

1. Immerse the entire stem or 100mm for longer stems into a medium of known temperature.

Using a small open-end wrench or flat tipped screwdriver adjust the thermometer pointer to the correct temperature by turning the calibration screw (located behind dial).