



## VAPOR ACTUATED THERMOMETER INSTALLATION INSTRUCTIONS

### INSTALLING THE INDICATING HEAD

Rear Flange models (Surface Mount): Screw back of head to wall or panel, using screw holes provided.

Front Flange models and U-Clamp models (Flush Mount): Make circular cutout in panel slightly larger than case. Feed bulb and capillary through cutout, and fix head to panel.

- a) For U-Clamp - tighten U-Clamp(s) against back of panel.
- b) For Front Flange - Screw flange to front of panel, using screw holes provided.

### PLACEMENT OF THE BULB

If the bulb is installed more than 10 feet above or below the dial some recalibration of the instrument may be necessary.

### INSTALLATION OF THE BULB

The bulb should be totally immersed in the medium being measured.

For Union Connections: Unscrew and remove the 1/2" NPT fitting with a 7/8" wrench. Screw the 1/2" NPT fitting into the threaded process opening. Insert the bulb through the 1/2" NPT fitting. Tighten it in place by screwing the jam nut into the top of the 1/2" NPT fitting with an 11/16" wrench.

**NOTE:** Thermowells are recommended for any pressurized applications.

For Thermowells: Remove the thermo well and screw it into the process, so no leaking occurs. Thread sealant may be needed for this. Place the bulb into the thermowell. Tighten the bulb in place by screwing the jam nut into the top of the 1/2" NPT fitting with an 11/16" wrench.

For Bendable Extensions: Place the bulb into the thermowell, or directly into the process (**NOTE:** Thermowells are recommended for all pressurized applications). Slide the compression fitting down and screw the 1/2" NPT fitting into the process (or thermowell) threads. Tighten the top hex of the sliding union, until the bendable extension can no longer be slid in or out. The remaining portion of the extension may be gently bent out of the way.

### CARE OF CAPILLARY

The capillary tube should not be kinked or flattened. Vibration may cause the capillary to break over time. Care should be taken to dampen any capillary vibration.

### OPERATING TEMPERATURE

Recommended operating temperature is in the upper 2/3 of the dial scale.

### RECALIBRATION

Vapor actuated thermometers are manufactured with threaded, press fit and snap-ring lens which can all be easily removed for field calibration.

Should recalibration become necessary follow the steps below:

1. Remove crystal.
2. Immerse bulb totally in an agitated bath of known temperature. Allow system to stabilize for at least 90 seconds.
3. While holding the pointer hub with a screwdriver, grasp the pointer and turn it until the proper setting is attained.
4. Replace the crystal.

### AMBIENT CONSIDERATIONS

Vapor actuated thermometers give excellent readings when the bulb temperature is either above or below the temperature of the indicating head. Applications where the bulb and head are the same temperature (ambient applications) should be avoided. Also if the bulb "crosses ambient", (i.e. goes from hotter than the indicating head to cooler or vice-versa), some pointer fluctuations will occur for up to two minutes during this transition.