

BIMETAL DIAL THERMOMETERS

Installation, Operation & Maintenance Instructions

This bulletin contains information pertaining to the installation & care of **MILJOCO** bimetal dial thermometers. The use of thermometers featuring different constructions would be described in separate bulletins.

Installation & Operation

1. Wherever possible, a Miljoco Bimetal Thermometer should be installed in a thermowell to help protect the stem against fluid erosion, corrosion or other hazards. **NEVER** install the thermometer directly into a pressurized application. The thermowell should first be primed with a heat transfer medium, such as oil, graphite or paste, to provide optimal accuracy and response time.
2. All Miljoco thermometers are factory-calibrated to the stated accuracy. However, the instrument may be subjected to mishandling during transportation, therefore accuracy should always be verified against a known standard before installation. The thermometer should be installed at a location as free from vibration as possible in order to avoid the potential excessive wear of the internal mechanisms.
3. When choosing an installation location, always ensure that the bottom portion (approximately 2") of the stem will be exposed to the media to be measured. Select the proper sized wrench tool so as to fit the metal flat adjacent the pipe threads on the hex connection. **NEVER** screw the thermometer into place using the case as a handle or knob. Carefully thread the thermometer into the apparatus or thermowell until tight, then thread further until the dial face is in the desired reading position.

Adjustable Angle Thermometers

The dial face of these thermometers can be adjusted to the most desirable reading. The stem should only be adjusted when necessary to ensure maximum thermometer life.

Adjusting the Stem

Before installing the thermometer, set the stem to the desired viewing angle by the following:

1. Slightly loosen the single bracket screw until the adjusting bracket mechanism pivots freely.
2. While holding the case and stem, pivot adjusting bracket until the proper viewing angle has been achieved.
3. Tighten the bracket screw to "lock" the adjusting bracket mechanism into place.

Maintenance

Generally, a properly installed thermometer should require no mechanical maintenance. If there is a clear indication of erroneous readings or mechanical malfunction, the unit should be removed and forwarded for inspection by a professional instrument service technician.