

# INSTRUCTIONS

## #12-726 Max-Min Thermometer

A Max-Min Thermometer records the highest and lowest temperatures seen by the thermometer between settings. A "U" shaped tube holds a clear liquid and columns of heavy colored liquid. As the temperature increases, the liquid in the temperature sensing bulb expands forcing the heavy liquid up the maximum scales. When the temperature falls, the liquid contracts and the heavy liquid follows it back up the minimum scale. Small limit markers are pushed to the temperature limits by the two sides of the heavy liquid column.

### Separation of Heavy or Clear Liquid

Rough handling in shipment will cause separation of the heavy liquid. Air bubbles may also appear in the clear liquid on the maximum side. The following instructions explain how to reunite the heavy liquid and eliminate the air bubbles. These steps should be followed before using the thermometer:

1. Hold the thermometer at the top (see Fig. 2) then strike the bottom end sharply several times against the palm of the hand. This will encourage any heavy liquid trapped in the upper ends of the thermometer to move down toward the columns.
2. Then grasp the thermometer at top (in tennis racquet grip - see fig.3) and swing the thermometer downward in an arc to sling the separated heavy liquid together.
3. Repeat the above steps as necessary to reunite the heavy liquid. If this procedure does not remove the air or reunite the columns completely, hold the thermometer upright under hot tap water so the water washes over the temperature sensing bulb gradually heating to force heavy liquid into expansion chamber at top of tube to reunite column. Do not allow the column to rise above 140° or 60°C. Hold the thermometer in an upright position to cool to room temperature. Wipe dry.

### Mounting

For accurate maximum/minimum temperatures, always mount the thermometer in an upright position. Do not locate the thermometer in direct sunlight or where there is a great deal of reflected light. To prevent further separations, store the thermometer in an upright, top end up position.

### Resetting the thermometer

To reset the thermometer press the center button and hold down. This releases the markers. Hold until the markers come to rest on the top of the heavy columns. If the limit markers stick, tap the tube to encourage them to fall. For the best use of your Max-Min Thermometer, read and reset at least once daily. Or you can reset the markers by using the removable magnet located at the top of the unit. Place the magnet directly over the limit marker and slide it into place next to the heavy colored liquid.

