



INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS

6" SURFACE MOUNT REMOTE READING DIAL THERMOMETER - WEISS 60BL4



CASE LOCATION

Select a location that is well lighted, free from dust, dirt and corrosive fumes. The instrument should not be located near any sources of heat or be subjected to sudden or extreme temperature changes. It should be mounted on a rigid support that is not subject to excessive vibration. The case must be vertical.

INSTALLATION – DISTANT READING TYPE

After the instrument case has been mounted, uncoil and stretch out the connecting tubing, placing the bulb at the location where the temperature is to be measured. Do not kink, twist or strain the connecting tubing. Remove the union bushing, separable socket, or other means of attachment from the bulb. Fasten the means of attachment to the process and insert the bulb and secure it in place. Starting at the bulb end, fasten the connecting tubing to a wall or other means of support where it would not be exposed to accidental damage. Avoid hot or cold pipes or any source of heat. Sufficient slack should be provided at the bulb so that it can be removed from the process. Do not bend the connecting tubing on a radius of less than 3 inches. **Important** – The connecting tubing cannot be extended or shortened. Any excess should be coiled and secured in place at the instrument end.

The bulb should be located in the process at the point that will provide the temperature indication that is the most representative of the process. Adequate circulation of the measured medium around the bulb is necessary for fast response and accurate indication. Pockets or dead zones must be avoided. The bulb should not be placed in the path of the heating or cooling medium where it will be influenced by radiation losses to a cooler surface or radiation from a source of heat. It may be necessary to try several locations before final installation can be made.

Where the bulb is to be installed at an elevation other than specified on order, serious error may result. Test the instrument as outlined under "Calibration Check," and make the necessary bulb elevation corrections.

CALIBRATION CHECK

To check the calibration of a dial thermometer, a test thermometer of known accuracy and a well agitated constant temperature bath are required.

Remove the bulb from the process. Place it in the agitated temperature bath with the test thermometer as close to it as possible. The temperature of the bath should be approximately equal to the mid-point of the range. The bath must be at the same elevation relative to the instrument case as the bulb is when it is installed in the process. Allow approximately five (5) minutes before comparing the temperature indication of the dial thermometer with that of the test thermometer. If the temperature indicated by the dial thermometer does not agree with that indicated by the test thermometer remove the glass face and adjust the pointer to indicate the correct temperature.

If the test instrument will not hold its calibration after adjusting, it should be returned to Weiss Instruments Inc. for repair and recalibration.

A brief statement of the reason for its return should accompany the instrument.

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