



H-2600
Instruction Manual

**THERMOMETER WITH
EXPANSION CHAMBER**

Manufactured by:

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1. Operating Instruction

A slight separation can usually be reunited by heating the bulb slowly in a soft flame until the separated mercury and the main column both run into the safety chamber at the top of the thermometer bore. A slight jar will then reunite the mercury. **Caution:** Never completely fill the expansion chamber with fluid as internal pressure will cause breakage. Care should be taken not to heat the thermometer bulb too fast.

If the safety chamber is too small to hold all the separated mercury it is better to cool the bulb in dry ice until all the mercury runs into the bulb. When using this method apply the dry ice to the bulb but not to the bore. If the mercury freezes solid it can melt slowly at room temperature without danger of breakage provided it is not frozen in the bore. Red liquid thermometers can be reunited by swinging by hand or in a centrifuge with the bulb end out, or by either of the methods above.

Mercury in glass maximum registering thermometers has an apparent separation near the bottom of the bore which cannot be eliminated. This is caused by the presence of a glass plug in the bore which prevents the mercury column from preceding. The size of the apparent separation varies in proportion with the maximum temperature being registered. To lower the mercury column below the temperature reading required, swing the mercury past the plug and into the bulb by centrifugal force. This is accomplished by swinging the thermometer, bulb end out, all full arm's length simultaneously with a snap of the wrist.

Evacuated space above the column will permit the mercury to run in the bore when inverted.

2. Warranty

Humboldt Mfg. Co. warrants its products to be free from defects in material or workmanship. The exclusive remedy for this warranty is Humboldt Mfg. Co., factory replacement of any part or parts of such product, for the warranty of this product please refer to Humboldt Mfg. Co. catalog on Terms and Conditions of Sale. The purchaser is responsible for the transportation charges. Humboldt Mfg. Co. shall not be responsible under this warranty if the goods have been improperly maintained, installed, operated or the goods have been altered or modified so as to adversely affect the operation, use performance or durability or so as to change their intended use. The Humboldt Mfg. Co. liability under the warranty contained in this clause is limited to the repair or replacement of defective goods and making good, defective workmanship.

CAUTION: Keep hands, clothing and other objects away from moving parts when the machine is in operation.