GENERAL
When removing the thermometer from the packing box, handle it by the case assembly or the fitting. Do not handle the thermometer by the stem. Do not bend the stem – this will cause misalignment of the internal parts, resulting in permanent damage.

INSTALLATION OF THERMOMETERS
The thermometer should be mounted at any convenient location where it will be subjected to the average temperature variations to be indicated.

Avoid bending the stem, as this will cause misalignment of the internal parts, resulting in permanent damage.

To tighten the thermometer to the apparatus use a wrench applied to the hexagon head of the threaded connection located just outside of the case.

INSTALLATION
Locate the free end stem so that at least the last two to three inches of the free end will be subjected to the average temperature to be measured.

Do not expose the stem to a temperature in excess of the maximum dial reading.

The thermometer is normally provided with a threaded connection. To tighten the thermometer to the apparatus or into a thermowell, use an open-end wrench applied to the hexagonal head of the threaded connection. Turn until reasonably tight, the tighten still further in the same manner as a pipe elbow or similar pipe fitting until the scale is in the desired position for reading. DO NOT TIGHTEN BY TURNING THE THERMOMETER CASE. Install the thermometer so that the maximum case temperature is kept below 200° F at all times.

When a thermometer is equipped with a thermowell, the thermowell should be installed onto the apparatus first. The stem of the thermometer should then be coated with a heat-conducting medium (a mixture of glycerin and graphite or any other heavy lubricant may be used), after which the thermometer stem is inserted and tightened into the thermowell.

CAUTION: Thermowells should be used for all process systems where pressure, velocity, or viscous, abrasive, or corrosive material are present individually or in combination to protect the thermometer stem from corrosion or physical damage, and to facilitate removal of the thermometer without disturbing the process.

TESTING
WIKA Bimetal Dial Thermometers are carefully calibrated at the factory and under most operating conditions will retain their accuracy indefinitely. However, as in the case of all instruments, it is beneficial to make periodic checks for accuracy against known standards.