

## **612-0055 (15-150) Temperature Probe**

**Introduction:** Thermometers can react badly to sudden changes in temperature. For example, immerse a thermometer in ice, wait for it to stabilize, and then place it in a flame. Although the thermometer may be able to withstand both temperatures, the sudden change can damage the instrument.

Rather than take a chance, use our handy temperature probe! The probe is made of aluminum, which is a useful material for this application. Aluminum conducts heat very well. Some metals, such as copper and silver, conduct heat faster, and steel has a higher melting point. However, aluminum is desirable because it conducts heat very evenly. When it heats up, the whole shaft will heat at the same rate, without leaving ‘hot spots’. This means that the end of the probe is a single temperature, removing some potential for error.

**Operation:** Using your temperature probe is a very simple affair. A length of heat resistant tubing has been placed on the larger end of the probe. Place the bulb of the thermometer on the larger end of the probe and slide the tubing until half of it covers the thermometer. This will help hold the thermometer in place.

To get a reading, place the tip of the probe where you wish to take the temperature. Since it is so much smaller than the bulb of a particular thermometer, you can get quite localized readings. This can make your measurements more accurate.

Due to the length of the probe, it may take some time to equalize to the temperature of your sample. Generally, if you require a more precise measurement it will take more time to equalize.

### **Warranty and Parts:**

We replace all defective or missing parts free of charge. Additional replacement parts may be ordered toll-free. We accept MasterCard, Visa, checks and School P.O.s. All products warranted to be free from defect for 90 days. Does not apply to accident, misuse or normal wear and tear. Intended for children 13 years of age and up. This item is not a toy. It may contain small parts that can be choking hazards. Adult supervision is required.

