

# USER INSTRUCTIONS

## Screen Printers Temperature Probe Model No. 50008-K

(As included in kit #93916-K and #93816-K)

### DESCRIPTION:

The “Donut” Screen Printing Probe is specially designed to meet the needs of today’s Screen Printers. Constructed of temperature-resistant Teflon®, it may be used hundreds of times without degradation of material or accuracy of measurement.

The sensor wires are constructed of very fine gauge alloy metals, especially chosen for their temperature-sensing properties. The wires are designed to make **DIRECT CONTACT WITH THE INK**. Many other temperature measuring devices are capable of reading only the temperature of the air around the silk screened item. The rise and fall of the ink temperature may be significantly different than that of the garment or the surrounding air.

### OPERATION:

**Testing Ink Temperatures** - With the thermometer on and probe plugged in, place the “ring” over an inked part of a garment (or scrap piece of material) with the cross-hairs wires down. Be sure the wires are actually touching the ink. Allow the garment and probe to be fed into the dryer along the conveyor belt. The temperature displayed by the thermometer reflects the rise in temperature of the ink as it moves through the dryer. When the temperature begins to quickly decline, the probe should now have exited the dryer. Unplug the probe and allow only the lead wire to follow the probe through the dryer. **DO NOT ALLOW THE THERMOMETER TO GO THROUGH THE DRYER and DO NOT PULL RING BACK** as this could damage the delicate cross-hair wires.

**Testing Internal Dryer Temperature** - With the thermometer on and probe plugged in, place the ring on the conveyor belt with the **cross-hair wires UP**. Leaving them down will only take the temperature of the conveyor belt. This should be done three times; once on the right, once on the left, and once in the middle of the conveyor belt. By recording the temperatures at five second intervals, it can be determined if your dryer is heating consistently. Save this as a permanent record for future reference. “Cold” spots can result in the ink not fully curing. **NOTE: This procedure is not to be used on INFRA-RED dryers as they do not heat the air!**

### REPLACEMENT OF CROSS-HAIR SENSOR WIRES:

Should you find the cross-hair wires to be in need of replacement due to damage or normal wear and tear, they can be replaced as follows: **Tools Needed:**

- Medium Phillips Screwdriver
- Needle Nose Pliers
- Replacement Sensor Wire Kit (Part #10830-)



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Observe the position of the wires before removal. If they are not replaced in exactly the same way, the probe will not work properly. Loosen the screw holding the **RED** wire in place. Unwind the sensor wire from the screw and remove it by pulling on the spring end. Discard the defective wire. Feed the replacement **RED** wire through the donut in the opposite direction of removal. Pulling it snug with the needle nose pliers, wrap it around the screw. Tighten the screw back down, leaving little or no wire extending from under the screw head (if more than 1/8 inch of wire extends, faulty readings could occur). Repeat for the **YELLOW** wire. If you still observe faulty readings, see the troubleshooting section below.

### TROUBLESHOOTING THE THERMOMETER AND PROBE:

If the unit reads “-1” or flashes random negative temperatures, be sure the probe is plugged in and the cross-hair wires are touching each other. If “**LO BATT**” appears on the display, the battery needs replacement, refer to the 38653 / 39658 instruction sheet packed with the thermometer. If readings are lower than you believe they should be, make sure the cross-hair wires are actually touching the ink. Also be sure neither of the cross-hair wires is touching the metal nuts on the ring.

When replacing the cross-hair wires, note that the wires are color coded. It is essential that the wires are matched up **RED to RED** and **YELLOW to YELLOW**. The probe will not function properly otherwise.

### REPAIRS:

Our repair department is available Monday through Friday 8:00am to 5:00pm Eastern Standard Time, please call 800-835-5011.