

# SureTemp® Plus Model 690 and 692 Outline

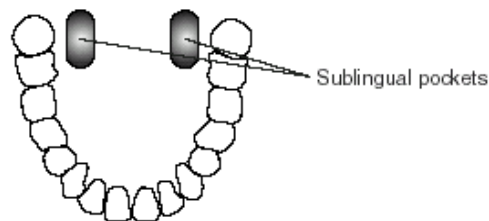
## Train the Trainer

### A. Introduction

1. Durable construction, easy to grasp.
2. Has color-coded removable probe wells: Blue is oral/axillary, red is rectal; reduces the risk of cross-contamination.
3. Measures oral temperatures in approximately 4-6 seconds.
4. Measures rectal temperatures in approximately 10 seconds.
5. Measures adult axillary temperatures in approximately 15 seconds.
6. Measures pediatric axillary temperatures in approximately 10 seconds.
7. Model 692 features 60 second pulse timer and LCD backlight.
8. Patient measurement range is 80° to 110° F. (26.6 to 43.4 C). These values represent the monitoring mode range.
9. Battery operated using 3 AA batteries with average life of batteries being 5000-6000 measurements; no battery charging required.
10. Model 692 features: an anti-theft alarm and a 7 character ID field on the display
11. Wall holder holds an additional 50 probe covers, with easy access for loading.
12. Clean on a routine basis, according to facility policy. Disinfect the device when contamination occurs. Appropriate cleaning/disinfecting agents:
  - a. Wipe the thermometer with a cloth dampened with warm water and a mild detergent solution.
  - b. Disinfect as needed with 70% isopropyl alcohol or 10% chlorine bleach, or a non-staining disinfectant.
  - c. Do not immerse or soak the thermometer or probe in fluid.
  - d. To clean the removable probe well, wipe inside and outside with disinfecting solutions listed above. If necessary, the probe well can be immersed in a mild detergent solution as necessary for cleaning. Make sure parts are dry before reassembling the thermometer.

### B. Oral Measurements

1. Remove probe with blue ejection button from blue probe well to turn thermometer on.
2. Verify oral mode is selected by observing the flashing head icon and the word "oral". Press mode selection to select oral mode if necessary.
3. Apply probe cover; use only Welch Allyn probe covers.



4. Place probe into sublingual pocket.
5. Hold the probe in place without moving it; "walking segments" appear on screen, indicating measurement in progress.

6. Temperature result will appear in approximately 4-6 seconds. The display shows the measurement site, temperature scale, and patient reading for 30 seconds or until probe is replaced in the well.
7. If the thermometer cannot measure the patient's temperature in Normal Mode, the thermometer enters Monitor Mode. Monitor mode is a mercury glass equivalent mode, and requires three minutes of measurement time. The thermometer does not beep to indicate a final temperature; record the temperature before removing the probe from the site.
8. Discard probe cover; never reuse probe covers.
9. Return probe to the probe well. The LCD display will go blank.
10. Interferences with oral measurements for up to 20 minutes:
  - a. Ingesting hot or cold liquids
  - b. Eating food
  - c. Chewing gum or mints
  - d. Brushing teeth
  - e. Mouth care
  - f. Smoking
  - g. Performing strenuous activity

**C. Recall Last Temperature**

1. Press the Recall button to display the last temperature taken.
2. Reading remains in memory until the next temperature is taken.

**D. Change Temperature Scale**

1. Press the C/F button to display the temperature in the opposite scale.
2. The next reading will be taken in the default temperature scale.

**E. Pulse Timer (Model 692 only)**

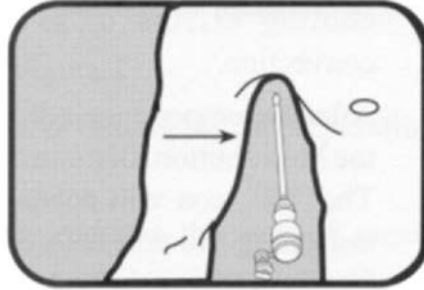
1. Press and release the Pulse Timer button to activate the timer.
2. Audible beeps sound at 0, 15, 30, 45, and 60 seconds. The timer turns off after 60 seconds.
3. Pressing the timer button again or removing the probe from the well will stop the timer.

**F. Backlight (Model 692 only)**

1. LCD display is lighted for ease of viewing in dark room.
2. Turns on automatically whenever probe is out of well.

**G. Axillary Measurements on Adults**

1. An Adult patient is anyone 18 years and older.
2. Remove probe with blue ejection button from blue probe well to turn thermometer on.
3. Press Mode Selection button to select the adult axillary mode. The adult icon will have a flashing torso icon and display "adult axillary".
4. Load a probe cover onto probe.
5. Lift patient's arm, place probe as high as possible into the axilla in proper vertical position ('align with the spine'). This must be performed against bare skin.



6. Place the patient's arm snugly down around the probe. "Walking" segments will appear on the screen indicating measurement is in progress.
7. Approximately 12-15 seconds later, the thermometer will beep and display the temperature, measurement site, and temperature scale for 30 seconds or until the probe is replaced in the well.
8. If the temperature cannot be determined in Normal Mode, the thermometer will enter Monitor Mode, the mercury glass equivalent mode. The probe should be left in the axilla for five minutes to obtain a monitor mode temperature. The thermometer does not beep or store a value in memory from Monitor Mode.
9. Discard the probe cover. Upon returning the probe to the well, the thermometer defaults back to its preset setting (usually oral mode).
10. Inaccurate measurements can be caused by:
  - a. Probe contact with clothing, bandages, electrodes, etc.
  - b. Poor tissue contact
  - c. Prolonged exposure of the axilla to ambient air

#### H. Axillary Measurements for Pediatric Patients

1. Pediatric patients: age 17 and younger
2. Remove probe with the blue ejection button from blue probe well to turn thermometer on.
3. Press the Mode Selection button to select the pediatric axillary mode. The pediatric icon is a crawling toddler and displays "Ped Axillary".
4. Follow the same procedure for measuring an adult temperature. The pediatric measurement will take approximately 10 seconds.

#### I. Rectal Measurements

1. Obtain the red probe well and probe with the red ejection button.
2. Remove the blue probe well and probe, and install the red.
3. Remove the probe from the probe well to turn the thermometer on. Observe the icon with the lower half of the body flashing and displays "Rectal" indicating Rectal Mode.
4. Load the probe cover onto the probe. The use of lubricant is optional.
5. Insertion for an adult should be 5/8" (1.5cm) and less for infants and children.
6. "Walking" segments appear on the screen, indicating measurement in progress.
7. The unit will beep upon completion. The temperature, measurement site, and temperature scale will appear on the display for 30 seconds or until the probe is replaced in the well.
8. If the temperature cannot be determined in Normal Mode, the thermometer will enter Monitor Mode, the mercury glass equivalent mode. To obtain a monitored temp, the probe needs to remain in place for three minutes. The thermometer does not beep, and does not store a value in memory.
9. When measurement is complete, remove the probe from the patient and discard the probe cover.
10. Return the probe to the probe well, wash hands.

## J. Monitor Mode

1. Continuous monitoring mode; not recommended for use over 5 minutes.
2. Measurements are not stored in memory.
3. Useful for double-checking fast readings; i.e. an infant exposed to cool ambient temperatures.
4. Equivalent to using a glass thermometer.
5. To use monitor mode:
  - a. Select the correct probe/probe well.
  - b. Load probe cover.
  - c. Take the patient's reading in the appropriate place. Continue to hold the probe in position after the temperature is displayed.
  - d. Press the Mode selection button until Monitor Mode indicator appears on the LCD.
  - e. Keep the thermometer in place for the required duration:
    - i. Oral 3 minutes
    - ii. Axillary 5 minutes
    - iii. Rectal 3 minutes
  - f. Record the temperature before removing the probe from the site.
  - g. Discard the probe cover. Upon returning the probe to the well, the thermometer will return to normal mode.
6. The thermometer enters Monitor Mode automatically if the probe has been removed and not used for 60 seconds, or if the patient temperature is too low to allow the device to predict.

## K. Screen Icons

1. Instrument Malfunction: a thermometer icon with an X through it means the instrument is not working properly. The thermometer will not take readings.
2. Broken Probe: probe icon with an X through it, means the probe is broken.
3. Loss of Tissue Contact: probe icon next to an open mouth icon, means the probe is not touching tissue properly. If displayed with the final reading, the recommendation is to re-take temperature.
4. ID Field: the upper left-hand corner of the screen, allows customized identification of the unit. (Model 692 only)
5. Low Battery: battery icon with a small flashing segment inside indicates the need for batteries to be changed soon. Normal operation is not affected.
6. Dead Battery: empty battery icon, indicates the batteries are too low for the instrument to function. The thermometer will not take measurements.

## L. Security (Model 692 only)

*Note: All security and ID's are usually set at individual facilities by Clinical Engineering*

1. Temperature Count Setting
  - a. Allows user to take a set number of temperature readings before the unit goes into security alarm state; this is optional, and is set by clinical engineering.
  - b. As the instrument nears the final reading, it will display SECURITY COUNT as a warning, along with the number representing the last 5 temperature counts remaining.
  - c. As alarm state is entered, it beeps for approximately 10 seconds, and displays SEC on the LCD along with SECURITY COUNT in the ID field. The instrument is disabled.
  - d. Return the instrument to a wall holder to reset the counter.
2. Instant-On Setting
  - a. The thermometer goes into alarm state within 5 seconds after removal from the wall holder.

- b. In the alarm state, the thermometer beeps continuously and displays SEC on the LCD.
  - c. To clear the alarm state and to take a patient reading, return the device to the wall holder and press the MODE SELECTION button while removing the probe from the probe well.
3. All customization is remembered (including security, ID, Mode and scale) when the batteries are changed.

#### **M. Battery Replacement**

1. Remove the box of probe covers from the probe cover storage compartment.
2. Remove the probe and probe well.
3. Press inward on the textured grips on each side of the assembly to remove the battery door.
4. Remove the three AA batteries; replace with fresh AA batteries matching the polarity symbols.
5. Snap the probe cover storage assembly back into place.
6. Replace the probe, probe well, and probe covers.