

Welch Allyn REF 690 SureTemp Plus



Welch Allyn REF 690 SureTemp Plus User Manual

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Welch Allyn REF 690 SureTemp Plus



Product Information

The Welch Allyn SureTemp Plus thermometer is a versatile device that measures patient's temperature in the oral, axillary, and rectal body sites of adult, pediatric, and newborn patients. It is designed to provide accurate and reliable temperature readings. The thermometer comes in two models, the SureTemp Plus Model 690 and the SureTemp Plus Model 692. Both models have various features and capabilities that make them suitable for different user needs.

Specifications

- Probe Cover Storage
- F/C Conversion
- Last Temperature Recall
- Monitor Mode
- Detachable Probe
- Oral / Axillary / Rectal Modes on Each Thermometer
- Color-Coded Removable Probe Well
- Wall-Holder Standard
- Pulse Timer

- Backlight
- Security (Electronic)
- Configurable On-Screen Labeling for Identification of Instrument
- Sold in U.S./Canada
- Sold Internationally
- Instrument Warranty: 2 years (Model 690), 3 years (Model 692)
- Removable Probe Well Warranty: 90 days (Both Models)

Product Usage Instructions

Safety and Warnings

1. Biting the probe tip while taking a temperature may result in damage to the probe.
2. The thermometer case, connectors, and probe are not waterproof. Do not immerse or drip fluids on these items.
Should this occur, dry the device with warm air. Check all operating functions for proper operation.

Introduction

This booklet provides informative tips and instructions for using the SureTemp Plus model 690 and model 692 thermometers. The chart on the following page provides details about the differences between these SureTemp Plus instruments.

SureTemp Plus Model Comparison Chart

This manual describes features found in SureTemp Plus model 690 and 692 thermometers. Certain features are not available to users of the model 690 thermometer.

SureTemp Plus Model 690	SureTemp Plus Model 692
X	X
X	X
X	X
X	X
X	X
X	X
X	
X	
2 years	1 year
90 days	90 days
X	X
X	X
X	X
X	X
X	X
3 years	1 year
90 days	90 days

Indications/Contraindications

The Welch Allyn SureTemp Plus thermometer measures patient's temperature in the oral, axillary, and rectal body sites of adult, pediatric, and newborn patients. The device is not designed, sold, or intended for use except as indicated.

Printed in Mexico.

U.S. Patent 5,632,555; 6,000,846; 6,036,361; 6,971,790. Additional U.S. and foreign patents pending.

AGENCY APPROVALS

CERTIFIED TO: CAN/CSA STD C22.2 NO. 601.1



IFIED TO: CAN/CSA STD C22.2 NO. 601.1 CONFORMS TO: IEC 60601-1, 60601-1-2, UL STD 2601-1



WELCH ALLYN PTY LTD
5/38-46 SOUTH STREET
RYDALMERE
NSW 2116
AUSTRALIA

EMC Framework of Australia

CE 0297

The CE mark on this product indicates that the product has been tested to and conforms with the provisions noted within the 93/42/EEC Medical Device Directive.

EC	REP
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




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SYMBOLS AND DESCRIPTIONS

	ATTENTION: Caution consult user's manual for additional information.
	Type BF Applied Part
	Handle with Care
	Transport/Storage Temperature
	Transport/Storage Humidity
	Internally Powered Alkaline Battery - AA 1.5V
IPX0	Not protected against the ingress of water.
	Latex Free
	Do not dispose of this product as unsorted municipal waste. Prepare this product for reuse or separate collection as specified by Directive 2002/96/EC of the European Parliament and the Council of the European Union on Waste Electronic and Electrical Equipment (WEEE). If this product is contaminated, this directive does not apply. For more specific disposal information, see www.welchallyn.com/weee , or contact Welch Allyn Customer Service at +44 207 365 6780.

SAFETY AND WARNINGS

-  In order to obtain accurate and reliable temperature results and ensure patient safety, it is important that this booklet is read thoroughly prior to using the instrument. If you have any technical or clinical questions concerning the thermometer's use and/or care, please contact the Welch Allyn Customer Service Department.
-  Use single-use Welch Allyn disposable probe covers to limit patient cross-contamination. The use of any other probe cover may produce temperature measurement errors or result in inaccurate readings.
-  Do not take a patient's temperature without using a Welch Allyn disposable probe cover. Doing so can cause patient discomfort, patient cross contamination, and erroneous temperature readings.
-  Long-term continuous monitoring beyond three to five minutes is not recommended in any mode.

-  Biting the probe tip while taking a temperature may result in damage to the probe.
-  Oral/axillary probes (blue ejection button at top of probe) and blue oral/axillary removable probe wells are used for taking oral and axillary temperatures only. Rectal probes (red ejection button) and red rectal removable probe wells are used for taking rectal temperatures only. Use of the probe at the wrong site will result in temperature errors. Use of the incorrect removable probe well could result in patient cross-contamination.
-  To ensure patient safety and temperature measurement accuracy, use only accessories and supplies recommended or supplied by Welch Allyn.
-  Equipment is not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.
-  The thermometer case, connectors, and probe are not waterproof. Do not immerse or drip fluids on these items. Should this occur, dry the device with warm air. Check all operating functions for proper operation.
-  Do not take an axillary temperature through patient's clothing. Direct probe cover to skin contact is required.
-  The Welch Allyn SureTemp Plus thermometer consists of high quality precision parts. Protect it from severe impact and shock. A qualified service technician must check any SureTemp Plus thermometer which is dropped or damaged to ensure proper operation prior to further use. Do not use the thermometer if you notice any signs of damage to the probe or instrument. Contact the Welch Allyn Customer Service Department for assistance.
-  Welch Allyn recommends that batteries are removed for long term storage since alkaline batteries can deteriorate and leak over extended periods of time, and possibly cause damage to the thermometer.
-  Do not autoclave. Please note the cleaning procedures described on page 21 of this manual.
-  Do not use this instrument for any purpose other than that specified in this booklet. Doing so will invalidate the instrument's warranty.
-  This thermometer complies with current required standards for electromagnetic interference and should not present a problem to other equipment nor is it effected by other devices. As a precaution, avoid using this device in close proximity to other equipment.

INTRODUCTION

Congratulations on your purchase of the Welch Allyn SureTemp Plus Thermistor Thermometer. Please follow the operating and maintenance instructions provided in this manual to ensure years of accurate and reliable service. Please read these instructions thoroughly before using the instrument, and then store these instructions in a safe place for future reference.

The Welch Allyn SureTemp Plus is a portable thermistor thermometer used for accurately measuring body temperatures at oral, axillary, or rectal sites. Normal body temperature is a range, which varies from person to person and is influenced by factors such as time of day and an individual's level of activity, ingested medications, age, and gender. A person's normal temperature tends to decrease with age. The following table shows that ranges of normal also vary by site. Do not directly compare measurements from different sites.

<i>Normal Body Temperature Ranges *</i>				
°C	0 - 2 years	3 - 10 years	11 - 65 year	> 65 years
Oral	—	35.5 37.5	36.4 37.5	35.8 37.0
Rectal	36.6 38.0	36.6 38.0	37.0 38.1	36.1 37.3
Axillary	34.7 37.3	35.9 36.7	35.2 36.9	35.5 36.3
Ear	36.4 38.0	36.1 37.8	35.9 37.6	35.8 37.5
Core	36.4 37.8	36.4 37.8	36.8 37.9	35.9 37.1

Normal body temperature is a range. This table shows that normal temperatures vary by site. Therefore, readings from different sites, even if taken at the same time, should not be directly compared.

** References*
 Chamberlain, J. & Terndrup, T., et. al.; "Determination of Normal Ear Temperature Using an Infrared Emission Detection Thermometer "; *Annals of Emergency Medicine*; January, 1995.
 Braun, S., Preston, P., and Smith, R.; "Getting a Better Read on Thermometry "; *RN Magazine*; March, 1998.
 "Temperature Measurement in Paediatrics"; *Paediatric Child Health* Vol 5 No 5; July / August, 2000.
 Brunner, L. and Suddarth, D., et. al.; *The Lippincott Manual of Nursing Practice*; 1982; p.1145.
 Erickson, R., *Temperature Taking Sourcebook* ; IVAC Corporation, San Diego, CA , 1993.
 Houdas, Y., et. al.; *Human Body Temperature, Its Measurement and Regulation*; 1982; p.81-87.

This booklet provides informative tips and instructions for using the SureTemp Plus model 690 and model 692 thermometers. The chart on the following page provides details about the differences between these SureTemp Plus instruments.

SURETEMP PLUS MODEL COMPARISON CHART

This manual describes features found in SureTemp Plus model 690 and 692 thermometers. Certain features are not available to users of the model 690 thermometer.

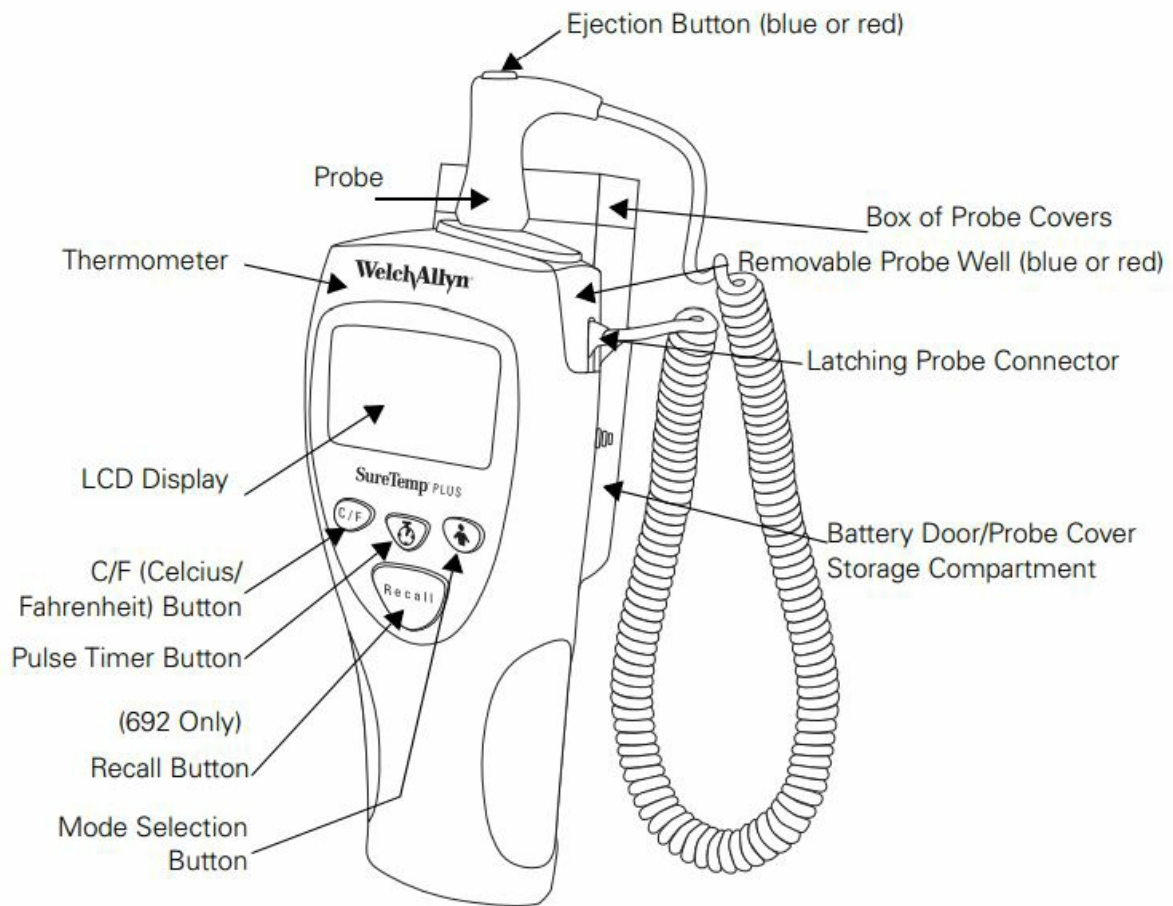
	SureTemp Plus Model 690	SureTemp Plus Model 692
Probe Cover Storage	X	X
F/C Conversion	X	X
Last Temperature Recall	X	X
Monitor Mode	X	X
Detachable Probe	X	X
Oral / Axillary / Rectal Modes on Each Thermometer	X	X
Color-Coded Removable Probe Well	X	X
Wall-Holder Standard		X
Pulse Timer		X
Backlight		X
Security (Electronic)		X
Configurable On-Screen Labeling for Identification of Instrument		X
Sold in U.S./Canada	X	X
Sold Internationally	X	X
Instrument Warranty	2 years	3 years
Removable Probe Well	90 days	90 days
Probe Warranty	1 year	1 year

INDICATIONS/CONTRAINDICATIONS

The Welch Allyn SureTemp Plus thermometer measures patient's temperature in the oral, axillary, and rectal body sites of adult, pediatric, and newborn patients. The device is not designed, sold, or intended for use except as indicated.

PARTS AND FEATURES

You can find the serial number of your device on a label affixed to the rear housing inside the unit's probe cover storage compartment. Please note the parts of your Welch Allyn SureTemp Plus thermometer as shown below:



BUTTON FUNCTIONS

Buttons

C/F



Procedure

Press and release the **C/F (Celsius/Fahrenheit)** button to toggle between temperature scales any time a temperature is displayed on the LCD.

Pulse Timer (692 Only)



Press and release the **Pulse Timer** button to activate the timer. Audible beeps sound at 0, 15, 30, 45, and 60 seconds. The timer turns off automatically after 60 seconds. You can stop the timer at any time by pressing the **Pulse Timer** button or by removing the probe from the probe well.

Mode Selection



Press and release the **Mode Selection** button after you have withdrawn the blue probe from the probe well to change the current measurement site to Oral, Adult Axillary, or Pediatric Axillary. The selected measurement site is displayed by a flashing body site icon. Note that no other measurement sites are available when using the red probe in the Rectal Mode.

Recall



Press and release the **Recall** button when the display is blank to recall the last completed predicted temperature. The LCD will display the recalled temperature for five seconds along with the battery icon, temperature scale, mode selection, and probe-position icon (if applicable).

SET-UP

ASSEMBLING THE UNIT

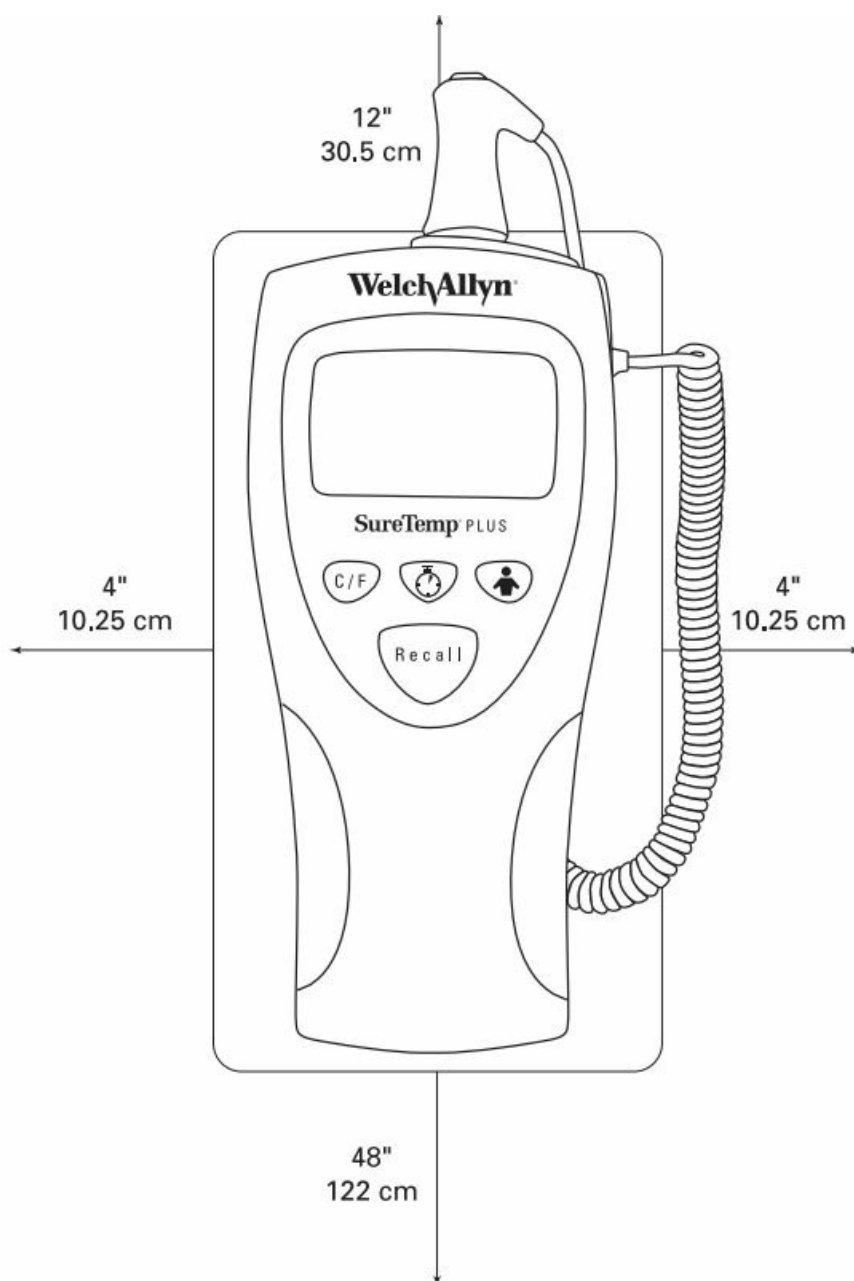
Your SureTemp Plus thermometer is shipped to you with three 1.5V AA batteries installed.

1. Install the oral/axillary probe (blue ejection button) or optional rectal probe (red Ejection button) by inserting the latching probe connector on the end of the coiled cord into the unit's plug receptacle. Ensure that the connector snaps into place. The LCD will illuminate for approximately 7 seconds and will then turn off.
2. Connect the appropriate removable probe well to the thermometer. Note that the cut-out in the probe well fits over the probe cord strain relief. Ensure that the removable probe well "snaps" into position and is completely seated to the thermometer. Place the probe into the well.
3. Insert the box of Welch Allyn disposable probe covers into the probe cover storage holder. To open the box of probe covers, remove and discard the tear-away corner. You will see the ends of the probe covers in the box.

MOUNTING THE UNIT

Mount the wall-mount bracket in a location such as an interior wall or wall divider so that the thermometer remains at ambient room temperature. Mounting the unit on an uninsulated exterior wall, in an area directly hit by sunlight, above heat radiators or powered equipment (including computers and lights), or below air conditioning outlets is not recommended.

Proper mounting of the unit will prevent tangling of the probe cord with other equipment at the patient's bedside.



1. Mount the instrument so that all other objects are no closer than 4 inches (10.25 cm) from the sides and bottom of the unit.
2. Mount the wall mount a maximum of 48 inches (122 cm) from the floor.
3. Install the wall mount to allow at least 12 inches (30.5 cm) clearance on top of the instrument. This provides ease of removing and installing the probe and probe well or installing probe covers onto the probe.

DISPLAY INDICATORS



- 
Instrument Malfunction


The device is not working properly. Call Welch Allyn's Customer Service Department for assistance.

- 
Broken Probe

The probe is broken. Replace probe or call Welch Allyn's Customer Service Department for assistance.

- 
Loss of Tissue Contact

The probe has lost contact with the patient's tissue. The icon will disappear once proper contact is achieved. The icon will later reappear at the end of the temperature measurement. It is recommended that you take a new temperature reading.

- 
ID Field

This is a seven-character field that allows customized identification of the instrument via user-selected letters and numbers. See the Model 690/692 Service Manual for set-up instructions.

- 
Walking Segments

The dark bar will move around the display when the thermometer is in the process of taking a temperature.

- 
ORAL
Oral Mode

This flashing icon and/or word are displayed to show that the Oral Mode is selected.

- 
**ADULT
AXILLARY**
Adult Axillary Mode

This flashing icon and/or words are displayed to show that the Adult Axillary Mode is selected.

**PED
AXILLARY**



- **Ped Axillary Mode**

This flashing icon and/or words are displayed to show that the Pediatric Axillary Mode is selected.



RECTAL

- **Rectal Mode**

This flashing icon and/or word are displayed to show that the Rectal Mode is selected.



- **MONITOR Monitor Mode**

This icon is displayed while in Monitor Mode. Monitor Mode is used for continuous temperature monitoring when difficult situations prevent accurate temperatures in the Normal Mode. For oral and rectal sites, three minutes of continuous monitoring is recommended for an accurate temperature reading. For axillary sites, five minutes of continuous monitoring is recommended.



- Patient Temperature Exceeds Upper Measurement Range Limit of 110.0 °F (43.3 °C)



- Patient Temperature Is Lower than Measurement Range Limit of 80.0 °F (26.7 °C)



- Ambient Temperature Exceeds Upper Measurement Range Limit of 104.0 °F (40.0 °C)



- Ambient Temperature Is Lower than Measurement Range Limit of 50.0 °F (10.0 °C)



- **Pulse Timer**

This icon indicates that the device is in the Pulse Timer Mode.



- **Low Battery**

A single flashing segment appears on the battery symbol. Normal operation is not affected. Replace the batteries.



- **Dead Battery**

An open battery symbol remains on the LCD and the device will not operate. Replace the batteries.

SEC

- **Security Mode**

The instrument is in Security Mode. Return the thermometer to the wall holder to resume normal operation See page 20 to set the instrument in Security Mode (Model 692 only).

ORAL TEMPERATURE MEASUREMENT

Using Probe with Blue Ejection Button and Blue Probe Well

When used correctly, the SureTemp Plus thermometer accurately measures an oral temperature in approximately 4–6 seconds. The ability of the SureTemp Plus thermometer to take an accurate oral temperature requires correct user technique.

TAKING AN ORAL TEMPERATURE



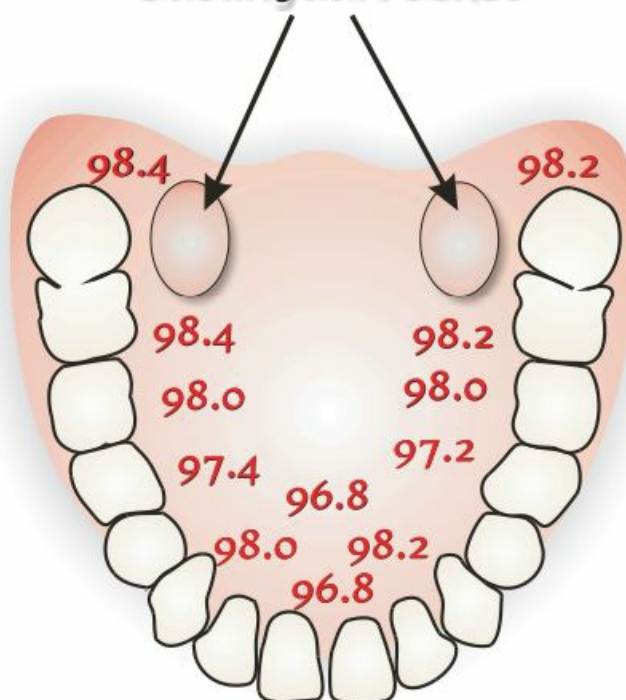
Do not take a patient's temperature without using a Welch Allyn disposable probe cover. Doing so can cause patient discomfort, patient cross contamination, and erroneous temperature readings.

1. Ensure that the oral probe (blue ejection button) and the blue probe well are installed.
2. Holding the probe handle with your thumb and two fingers on the indentations of the probe handle, withdraw the probe from the probe well.
3. Verify that the oral model icon is selected by observing the flashing head icon on the instrument's display. If this icon is not flashing, press the Mode Selection button until the head icon appears.



4. Load a probe cover by inserting the probe into a probe cover and pressing the probe handle down firmly. The probe handle will move slightly to engage the probe cover
5. ➡ Use only Welch Allyn probe covers. The use of other manufacturer's probe covers or no probe cover may produce temperature measurement errors and/or inaccuracy.
6. With the Oral Mode indicator flashing, quickly place the probe tip under the patient's tongue on either side of the mouth to reach the rear sublingual pocket. Have the patient close his/her lips around the probe.

Sublingual Pocket



7. Hold the probe in place, keeping the tip of the probe in contact with the oral tissue throughout the measurement process. Rotating "walking" segments appear on the display, indicating that measurement is in progress.
8. The unit will beep three times when the final temperature is reached. The measurement site, temperature scale, and patient temperature will display on the LCD. The final temperature will remain on the display for 30

seconds.



9. If you cannot correctly measure the patient's temperature in Normal Mode, the unit will automatically enter Monitor Mode. In this mode, measurement time is extended. Either repeat the temperature measurement in Normal Mode in the opposite sublingual pocket or keep the probe in place for three minutes in Monitor Mode. The thermometer will not beep to indicate a final temperature. Record the temperature before removing the probe from the site, as the temperature reading is not maintained in memory.



- Long-term continuous monitoring beyond three minutes is not recommended in the Oral Mode.

10. After the temperature measurement is complete, remove the probe from the patient's mouth. Eject the probe cover by firmly pressing the ejection button on the top of the probe.

11. Return the probe to the probe well. The LCD display will go blank.



- Patient actions may interfere with accurate oral temperature readings. Ingesting hot or cold liquids, eating food, chewing gum or mints, brushing teeth, smoking, or performing strenuous activity may affect temperature readings for up to 20 minutes after activity has ended.

AXILLARY TEMPERATURE MEASUREMENT

Using Probe with Blue Ejection Button and Blue Probe Well

When used correctly, the SureTemp Plus thermometer accurately measures an axillary temperature for pediatric patients (ages 17 and younger) in approximately 10–13 seconds and for adult patients (ages 18 and older) in approximately 12–15 seconds.

PLACING THE THERMOMETER INTO AXILLARY MODE



Do not take a patient's temperature without using a Welch Allyn disposable probe cover. Doing so can cause patient discomfort, patient cross contamination, and erroneous temperature readings.

1. Ensure that the axillary probe (blue ejection button) and the blue probe well are installed.
2. Holding the probe handle with your thumb and two fingers on the indentations of the probe handle, withdraw the probe from the probe well
3. Verify that the axillary mode is selected by observing the correct flashing axillary icon on the instrument's display. If this icon is not flashing, press the Mode Selection button to select the Adult Axillary or Pediatric Axillary icon is displayed.

Adult Axillary Mode Icon



Pediatric Axillary Mode Icon



To ensure optimal accuracy, always confirm that the correct axillary mode is selected.




After a temperature is taken and the probe is returned to the probe well, the instrument reverts to the original measurement site mode.

TAKING AN AXILLARY TEMPERATURE



Do not take an axillary temperature through patient's clothing. Direct contact between patient's skin and the probe is required.


1. Load a probe cover by inserting the probe into a probe cover and pressing the probe handle down firmly. The probe handle will move slightly to engage the probe cover.
 Use only Welch Allyn probe covers. The use of other manufacturer's probe covers or no probe cover may produce temperature measurement errors and/or inaccuracy.
2. With the correct axillary mode indicator flashing, lift the patient's arm so that the entire axilla is easily seen. Place the probe as high as possible in the axilla. Do not allow the probe tip to come into contact with the patient until the probe is placed in the measurement site. Before this, any contact between the probe tip and the tissue or other material may cause inaccurate readings.
3. Verify that the probe tip is completely surrounded by axillary tissue and place the arm snugly at the patient's side. Hold the patient's arm in this position and do not allow movement of the arm or probe during the measurement cycle. Rotating "walking" segments appear on the display, indicating that measurement is in progress.
4. The unit will beep three times when the final temperature is reached. The measurement site, temperature scale, and patient temperature will display on the LCD. The final temperature will remain on the display for 30 seconds.
5. If you cannot correctly measure the patient's temperature in Normal Mode, the unit will automatically enter Monitor Mode. In this mode, measurement time is extended. Either repeat the temperature measurement in Normal Mode in the opposite axilla or keep the probe in place for five minutes in Monitor Mode. The thermometer will not beep to indicate a final temperature. Record the temperature before removing the probe from the site, as the temperature reading is not maintained in memory.



- Long-term continuous monitoring beyond five minutes is not recommended in the Axillary Mode.

6. After the temperature measurement is complete, remove the probe from the patient's axilla. Eject the probe cover by firmly pressing the ejection button on the top of the probe.

7. Return the probe to the probe well. The LCD display will go blank.

-  Probe contact with electrodes, bandages, etc., poor tissue contact, taking a temperature over clothing, or prolonged exposure of axilla to ambient air can cause inaccurate temperature readings.

RECTAL TEMPERATURE MEASUREMENT


Using Probe with Red Ejection Button and Red Probe Well

When used correctly, the SureTemp Plus thermometer accurately measures the rectal temperature in approximately 10–13 seconds.

TAKING A RECTAL TEMPERATURE



Do not take a patient's temperature without using a Welch Allyn disposable probe cover. Doing so can cause patient discomfort, patient cross contamination, and erroneous temperature readings.

1. Ensure that the rectal probe (red ejection button) and the red probe well are installed. The instrument will only operate in Rectal Mode when the red rectal probe and probe well are installed.
2. Holding the probe handle with your thumb and two fingers on the indentations of the probe handle, withdraw the probe from the probe well.
3. Observe the flashing lower-body icon on the unit's display. Load a probe cover by inserting the probe into a probe cover and pressing the probe handle down firmly. The probe handle will move slightly to engage the probe cover.
 -  Use only Welch Allyn probe covers. The use of other manufacturer's probe covers or no probe cover may produce temperature measurement errors and/or inaccuracy.
4. With the Rectal Mode indicator flashing, separate the patient's buttocks with one hand. Using the other hand, gently insert the probe only 1.5 cm (5/8 in.) inside the rectum (less for infants and children). The use of a lubricant is optional.



- Incorrect insertion of probe can cause bowel perforation.
5. Tilt the probe so that the tip of the probe is in contact with tissue. Keep the hand separating the buttocks in place, and hold the probe in place throughout the measurement process. Rotating "walking" segments appear on the display, indicating that measurement is in progress.
 6. The unit will beep three times when the final temperature is reached. The measurement site, temperature scale, and patient temperature will display on the LCD. The final temperature will remain on the display for 30 seconds.
 7. If you cannot correctly measure the patient's temperature in Normal Mode, the unit will automatically enter Monitor Mode. In this mode, measurement time is extended. Either repeat the temperature measurement in Normal Mode or keep the probe in place for three minutes in Monitor Mode. The thermometer will not beep to indicate a final temperature. Record the temperature before removing the probe from the site, as the temperature reading is not maintained in memory.



- Long-term continuous monitoring beyond three minutes is not recommended in Rectal Mode.
8. After the temperature measurement is complete, remove the probe from the patient's rectum. Eject the probe cover by firmly pressing the ejection button on the top of the probe.
 9. Return the probe to the probe well. The LCD display will go blank.

10. Wash your hands.

- ➡ Washing hands greatly reduces the risk of cross-contamination and Nosocomial Infection.

MONITOR MODE TEMPERATURE MEASUREMENT

Using a Probe with a Blue Ejection Button (Oral/Axillary) or Red Ejection Button (Rectal)

Monitor Mode continuously displays the temperature of the probe for as long as the probe remains in place at the measurement site and remains within the operating patient temperature range. The patient's oral and rectal temperature will reach final equilibrium in approximately three minutes in the Monitor Mode. Axillary temperature will reach equilibrium in approximately five minutes in the Monitor Mode.

➡ Monitored temperatures are not stored in memory for recall.

TAKING A TEMPERATURE USING MONITOR MODE



Do not take a patient's temperature without using a Welch Allyn disposable probe cover. Doing so can cause patient discomfort, patient cross contamination, and erroneous temperature readings.

1. Ensure that both the appropriately coloured probe and matching probe well for the intended measurement site (oral/axillary or rectal) are installed.
2. Holding the probe handle with your thumb and two fingers on the indentations of the probe handle, withdraw the probe from the probe well.
3. Load a probe cover by inserting the probe into a probe cover and pressing the probe handle down firmly. The probe handle will move slightly to engage the probe cover.
 - ➡ Use only Welch Allyn probe covers. The use of other manufacturer's probe covers or no probe cover may produce temperature measurement errors and/or inaccuracy.
4. Take the patient's temperature using the normal Oral, Rectal, Pediatric Axillary, or Adult Axillary Mode as previously described.
5. Continue to hold the probe in position after the temperature is displayed.
6. Press the Mode Selection button until the Monitor Mode indicator appears on the LCD.
7. Hold the thermometer in place for the required duration:

Oral	3 minutes
Axillary	5 minutes
Rectal	3 minutes



- Long-term continuous monitoring beyond three to five minutes is not recommended in any mode.
8. Record the temperature before removing the probe from the site.
 9. Eject the probe cover by firmly pressing the ejection button on the top of the probe.
 10. Replace the probe in the probe well to clear the display and reset the thermometer to Normal Mode. The thermometer will not beep to indicate a final temperature.

➡ The unit will automatically enter Monitor Mode if the probe is withdrawn from the probe well and is not replaced within 60 seconds of inactivity.

INSTRUMENT SECURITY

The SureTemp Model 692 thermometer is equipped with electronic security options designed to reduce the risk of theft. These options include both Temperature Count and Instant-On security features.

TEMPERATURE COUNT

- The Temperature Count security feature allows you to take a set number of temperature readings before the instrument goes into the security alarm state. The selectable counts are 25, 50, 100, and 200.
- As the instrument nears the final reading, it will display SECURITY COUNT as a warning, along with a number representing the last 5 temperature counts (i.e., 5,4,3,2,1) remaining on the security counter.
- When the instrument enters the alarm state, it beeps for approximately 10 seconds. At this time, the instrument displays SEC on the LCD along with SECURITY COUNT in the ID field in the upper left-hand corner of the screen.
- The instrument is then disabled. Returning the instrument to the wall holder resets the security count. If the count is set to "OFF" the temperature count function is disabled and no security alarm will occur.
- To set the Temperature Count security feature, please refer to the Technical Manual.

INSTANT-ON

When the Instant-On feature is activated, the instrument goes into the security alarm state within five seconds after removal from the wall holder. When the instrument enters the alarm state, it beeps continuously and displays SEC on the LCD. Pressing the Mode Selection button while removing the probe from the probe well, within 30 seconds of the instrument's removal from the wall holder, clears the alarm and allows the instrument to operate. Returning the instrument to the wall holder will reset the instant audio alarm. The options for the Instant-On feature are ON and OFF. In the OFF setting, no security alarm will sound.




To set the Instant-On security feature, please refer to the Technical Manual.

MAINTENANCE

REPLACING THE BATTERIES

1. Remove the box of probe covers from the probe cover storage compartment on the back of the unit.
2. Remove the probe and the probe well.
3. Press inward on the textured grips on each side of the assembly to remove the battery door from the back of the unit.
4. Remove the three AA 1.5Vdc alkaline batteries and replace all three batteries with AA 1.5 Vdc alkaline batteries. Match the +/- polarity of each battery to the +/- symbols inside the battery compartment.





- Use size AA 1.5 Vdc alkaline batteries only. Use of any other battery size or type could damage the thermometer and cause personal injury.
5. Snap the probe cover storage assembly back into place.
 6. Replace the probe and probe well.
 -  Remove the batteries, if the instrument is not used for an extended period of time, to avoid possible damage to the thermometer due to battery leakage.

CLEANING



ROUTINE CLEANING

Clean on a routine basis according to each facility's policy. Disinfect the device whenever contamination occurs.

CLEANING THE THERMOMETER AND PROBE

- Wipe the thermometer regularly with a cloth dampened with warm water and a mild detergent solution.
- As needed, clean the thermometer and probe with a 70% isopropyl alcohol solution or a 10% chlorine bleach solution or a nonstaining disinfectant such as CaviCide® or its equivalent.
-  DO NOT immerse or soak the thermometer or probe in any type of fluid.
-  DO NOT use steam, heat, or gas sterilization on the thermometer or probe. DO NOT autoclave the thermometer or the probe.

CLEANING THE REMOVABLE PROBE WELL

- Remove the probe well from the unit. Unplug the latching probe connector to prevent the device from consuming battery power while you are cleaning the probe well.
- Clean the inner surface of the probe well by swabbing the surface with a cloth dampened with a mild detergent solution or a 70% isopropyl alcohol, or a 10% chlorine bleach solution, or a nonstaining disinfectant such as Cavi-Cide® or its equivalent. Clean the probe well's outer surface by swabbing or wiping the surface with one of the solutions mentioned above. Immerse the probe well in mild detergent solution as necessary for cleaning.
-  DO NOT use hard or sharp objects to clean the probe well. This could damage the probe well and cause the unit to not function properly.
-  DO NOT use steam, heat, or gas sterilization on the probe well. DO NOT autoclave the probe well.
- Thoroughly dry all surfaces before re-assembling the instrument.
- Re-connect the latching probe connector to the thermometer. Ensure that the connector snaps into place.
- Re-install the probe well in the thermometer and snap the probe well into place.
- Insert the probe into the probe well.

DISPOSAL

DISPOSING OF EQUIPMENT

This equipment contains no hazardous materials. Discard without environmental risk. Remove the batteries before disposal.

DISPOSING OF BATTERIES

Dispose of used batteries properly. Consult your local recycling authority for proper procedures

PERFORMANCE AND TECHNICAL SPECIFICATIONS

Ambient Operating Temperature Range	50.0 °F to 104.0 °F (10.0 °C to 40.0°C)
Operating Altitude	-557 ft. to +16,000 ft / -170m to +4877m
Patient Temperature Range	80.0 °F to 110.0 °F (26.7 °C to 43.3 °C)
Temperature Predict Time*	Oral: Approximately 4–6 secs. Adult axillary (18 years and older): Approximately 12–15 secs. Pediatric axillary (17 years and younger): Approximately 10–13 secs. Rectal: Approximately 10–13 secs.
Transport/Storage Temperature	-13°F to +131°F (-25°C to +55°C)
Calibration Accuracy	+/- 0.2 °F (0.1 °C) (Monitor Mode)
Humidity	15% to 95% non-condensing
Dimensions	8.46" x 3.18" x 2.43" (215mm x 81mm x 62mm)
Weight	12.6 ounces/357 grams
Power	(3) 1.5Vdc AA batteries
Equipment Classification	Class 2 Device, Continuous Operation Not AP or APG equipment
IPXØ	Not protected against the ingress of water.

REPLACEMENT PARTS AND ACCESSORIES

To order replacement parts and accessories, please contact the Welch Allyn office nearest to you. The phone numbers for these offices are provided on page 26.

SERVICE

Except for the replaceable AA batteries, this instrument contains no user-serviceable parts. Return the thermometer to a Welch Allyn authorized service center for service and repair. Refer to the Technical Manual.

WELCH ALLYN SERVICE POLICY

Only a Welch Allyn Service Center can perform or approve all repairs on products under warranty. Unauthorized repairs will void the warranty. Qualified electronics personnel or at a Welch Allyn Service Center should repair out-of-warranty products.

CONTACTING WELCH ALLYN

If you encounter an equipment problem that you cannot resolve, call the Welch Allyn Service Center nearest you for assistance. Welch Allyn offers telephone-based technical support on normal business days at the phone numbers listed on page 26. Before returning a product for repair, you must first obtain authorization from Welch Allyn. If you are advised to return a product to Welch Allyn for service or repair, you should schedule the repair with the Welch Allyn Service Center nearest you. Welch Allyn service personnel will provide you with a Return Materials Authorization (RMA) number. Print this number on the outside of your shipping box.

Welch Allyn does not accept returns that are missing an RMA number.

LIMITED WARRANTY

THREE-YEAR LIMITED WARRANTY ON MODEL 692 AND TWO-YEAR LIMITED WARRANTY ON MODEL 690 INSTRUMENTS

Instrumentation purchased new from Welch Allyn, Inc. (Welch Allyn) is warranted to be free from original defects in material and workmanship under normal use and service for a period of three years for Model 692 and a period of two years for Model 690 from the date of first shipment from Welch Allyn. This warranty shall be fulfilled by Welch Allyn or its authorized representative repairing or replacing at Welch Allyn's discretion, any such defect, free of charge for parts and labor.

Welch Allyn must be notified via telephone of any defective product and the item must be immediately returned, with an RMA number provided by Welch Allyn, securely packaged and postage prepaid to Welch Allyn. Loss or damage in shipment shall be at the purchaser's risk.

Welch Allyn will not be responsible for loss associated with the use of any Welch Allyn product that (1) has had the serial number defaced, (2) has been repaired by anyone other than an authorized Welch Allyn Service Representative, (3) has been altered, (4) has been used in a manner other than in accordance with the instructions, or (5) has been abused or exposed to extreme environmental conditions.

ONE-YEAR LIMITED WARRANTY ON PROBES AND PROBE COVERS

Welch Allyn warrants probes and probe covers to meet Welch Allyn's specifications for the Product at the time of purchase and to be free from original defects in material and workmanship under normal use and service for a period equal to one-year from the date of first shipment of such Product to the customer by or on behalf of Distributor. Probe covers are intended for single use only.

NINETY DAY LIMITED WARRANTY ON REMOVABLE PROBE WELLS

Removable probe wells (blue oral and red rectal) are warranted to be free from original defects in material and workmanship under normal use and service for a period of ninety days from the date of first shipment from Welch Allyn.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY IMPLIED WARRANTY OR MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHER WARRANTY OF QUALITY, WHETHER EXPRESSED OR IMPLIED. WELCH ALLYN WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE SALE, USE, OR IMPROPER FUNCTIONING OF THE INSTRUMENTATION REGARDLESS OF THE CAUSE. THE DAMAGES FOR WHICH WELCH ALLYN WILL BE RESPONSIBLE INCLUDE BUT ARE NOT LIMITED TO, LOSS OF REVENUE OR PROFIT, DOWNTIME COSTS, AND LOSS OF USE OF THE INSTRUMENTATION.

SERVICE CENTERS

For information about any Welch Allyn product, call Welch Allyn Customer Support:


- USA +1 800 535 6663, +1 315 685 4560
- Australia +61 2 9638 3000
- Canada +1 800 561 8797
- China +86 21 6327 9631
- European Call Center +353 46 90 67790
- France +33 1 60 09 33 66
- Germany +49 7477 9271 70
- Japan +81 3 3219 0071
- Latin America +1 305 669 9003
- Netherlands +31 157 505 000
- Singapore +65 6419 8100
- South Africa +27 11 777 7555

- United Kingdom +44 207 365 6780
- Sweden +46 85 853 6551

4341 State Street Road Skaneateles Falls, NY 13153 Tel: +1 800 535 6663 Fax: +1 315 685 3361
www.welchallyn.com Reorder No. 71213-CD DIR #80014331 Ver. A Printed in Mexico.

<https://manual-hub.com/>

Documents / Resources

	<p>Welch Allyn REF 690 SureTemp Plus [pdf] User Manual REF 690 SureTemp Plus, REF 690, SureTemp Plus</p>
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References

-  [Manual-Hub.com - Free PDF manuals!](#)
- [User Manual](#)

[Manuals+.](#) [Privacy Policy](#)

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