

REF

MODEL DT-30

# NON-CONTACT THERMOMETER

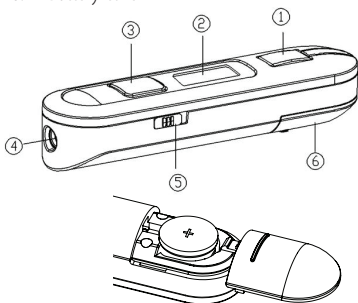
## Instructions



**PRESTIGE**  
MEDICAL.

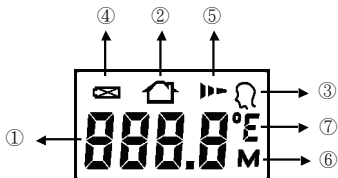
## UNIT DESCRIPTION

1. O/I Button
2. Display
3. Start Button
4. Sensor
5. Mode Switch
6. Battery Cover



## DISPLAY DESCRIPTION

1. Temperature reading
2. Object Temperature Icon
3. Body Temperature Mode Icon
4. Low Battery Warning Icon
5. Ready for Measurement Icon
6. Memory Mode Icon
7. Temperature Measurement Unit  
(Celsius / Fahrenheit)



## **ADVANTAGES OF THIS THERMOMETER**

### **Measurement in a matter of seconds**

The innovative infrared technology allows measurement without touching the object for safe and sanitary measurements within seconds.

### **Multiple Uses (wide range measurement)**

This thermometer offers a wide measurement range feature from 0 °C to 100.0 °C (32.0 °F to 212.0 °F), meaning the unit can be used to measure body temperature or it can be used to measure surface temperature of the following:

- Milk surface temperature in a baby's bottle
- Surface temperature of a baby's bath
- Ambient temperature

### **Accurate and reliable**

The unique probe assembly construction, incorporating an advanced infrared sensor, ensures that each measurement is accurate and reliable.

### **Gentle and easy to use**

- Easy to use ergonomic design.
- Can be used on a sleeping child.

### **Auto-display memory**

The last reading is automatically displayed for 2 seconds when the unit is switched ON.

### **Multiple reading recall**

Users will be able to recall the last 50 readings when entering the recall mode, enabling efficient tracking of temperature variations.

### **Safe and hygienic**

- No direct skin contact.
- No risk of broken glass or mercury ingestion.
- Cleaning of the probe can be done with an alcohol moistened cotton tissue, making this thermometer completely hygienic for use by the entire family.

### **Fever alarm**

10 short beeps and a red LCD backlight alert the patient that they may have a temperature equal to or higher than 37.5 °C (99.5 °F).

## **IMPORTANT SAFETY INSTRUCTIONS**

This instrument may only be used for the purposes described in this booklet. The manufacturer cannot be held liable for damage caused by incorrect application.

- Never immerse in water or other liquids. For cleaning please follow the instructions in the Cleaning and Disinfecting section.
- Do not use the instrument if you think it is damaged or notice anything unusual.
- Never open the instrument.
- A basic physiological effect called vasoconstriction can occur in the early stages of fever, resulting in a cool skin effect. The recorded temperature using this thermometer can, therefore, be unusually low.
- If the measurement result is not consistent with the patient's finding or unusually low, repeat the measurement every 15 minutes or double check the result by another core body temperature measurement.
- This instrument comprises sensitive components and must be treated with caution. Observe the storage and operating conditions described in the technical Specifications section.
- Ensure that children do not use the instrument unsupervised; some parts are small enough to be swallowed.
- Protect this instrument from extreme hot or cold temperatures, impact and dropping, contamination and dust, and direct sunlight
- If the instrument is not going to be used for a prolonged period the battery should be removed.

**WARNING:** Use of this instrument is not intended as a substitute for consultation with your physician. This instrument is NOT waterproof so do not immerse in liquids.

## HOW THIS THERMOMETER MEASURES TEMPERATURE

This thermometer measures infrared energy radiated from the forehead or objects. This is collected through the lens and converted to a temperature value. Pointing at the area above the eyebrow will provide the greatest accuracy.

## CONTROL DISPLAYS AND SYMBOLS

- **All segments displayed:**

Press the O/I button to turn on the unit; all segments will be shown for 2 seconds.

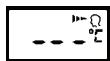


- **Memory:** The last reading will automatically be shown on the display for 2 seconds.



- **Ready for measurement:**

When ready, the C° or F° icon will flash while the mode icon (body or object) will be displayed.



- **Measurement complete:** The reading will be shown on the display with the C° or F° icon and the mode icon steady. The unit is ready for the next measurement as soon as the C° or F° icon is flashing again.

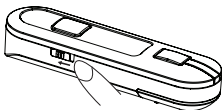
- **Low battery indication:** The battery icon will flash if the battery needs to be replaced.



## CHANGING TO BODY OR OBJECT MODE

For changing from body to object mode, slide the mode switch at the side of the thermometer downwards.

For switching back to body mode, slide the switch up again.

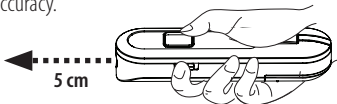


## **MEASURING IN BODY MODE**

1. Press the O/I button. The display is activated to show all segments for 2 seconds.
2. The last measurement reading will automatically be shown on the display for 2 seconds with the "M" icon at the lower right corner.
3. When the C° or F° icon is flashing, a beep sound is heard and the thermometer is ready for measurement.



4. Point the thermometer at the area above the eyebrow of the forehead with a distance of no more than 5 cm (2 inches). If the forehead is covered with hair, sweat or dirt, please remove the obstacle beforehand to improve the reading accuracy.



5. Press the START button.
6. After 1 second a long beep will verify the completion of measurement.
7. Read recorded temperature from the display.

## **MEASURING IN OBJECT MODE**

1. Follow steps 1-3 above, then aim the thermometer at the center of the object you want to measure with a distance of no more than 5 cm (2 inches). Press the START button. After 1 second a long beep will verify the completion of measurement.
2. Read recorded temperature from the display.

## **OPERATING NOTES**

- For more accurate readings, the patient and thermometer should remain in a steady room condition for 30 minutes before measurement.

- Don't take a measurement immediately after nursing a baby.
- Don't use in high humidity environments.
- Patients should not drink, eat, or exercise before/while taking the measurement.
- Don't move the measurement device from the measuring area before hearing the termination beep.
- Use an alcohol swab to carefully clean the probe and wait for 15 minutes before taking a measurement on another patient.
- 10 short beeps and a red LCD backlight alert the patient that they may have a temperature equal to or higher than 37.5 °C (99.5 °F).
- Always take the temperature in the same location, since temperature readings may vary according to location.
- Doctors recommend rectal measurement for newborns within the first 6 months, as other measuring methods may lead to ambiguous results. In these cases, we recommend to verify the readings with a rectal measurement.
- **In the following situations it is recommended that three temperatures be taken and the highest one used as the reading:**
  1. For children under three years of age with a compromised immune system and for whom the presence or absence of a fever is critical.
  2. For new users learning how to use the thermometer. Recommended until they have familiarized themselves with the instrument and can obtain consistent readings).
  3. If the measurement is surprisingly low. Readings from different measuring sites should not be compared as the normal body temperature varies by measuring site and time of day, being highest in the evening and lowest about one hour before waking up.

## **CHANGING THE UNIT OF MEASUREMENT FROM CELSIUS TO FAHRENHEIT**

1. Make sure the unit is turned off.
2. Press and hold the START button for more than 5 seconds until the current unit of measurement is displayed.
3. Press the START button again to switch between °C (Celsius) and °F (Fahrenheit). When your desired unit of measurement is shown on the display, wait a few seconds until all symbols are displayed. It is now ready for use.

**Note:** All saved measurement data will adjust to the newly selected unit of measurement.

## **HOW TO RECALL 50 READINGS IN MEMORY MODE**

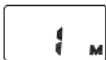
### **• Recall mode:**

While the power is turned off, press the START button to enter Recall mode. The memory icon «M» will flash.



### **• Reading 1 (The last reading):**

While the power is turned off, press and release the START button to recall the last reading. The display will indicate a "1" alone with the memory icon.



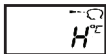
### **• Reading 50 (Readings in succession):**

Press and release the START button consecutively to recall the last 50 readings in succession. Pressing and releasing the START button after the last 50 readings have been recalled will resume the above sequence from reading 1.

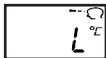


## ERROR MESSAGES

• **Measured temperature too high:** Displays "H" when measured temperature is higher than 42.2 °C (108.0 °F) in body mode or 100 °C (212 °F) in object mode.



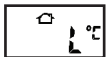
• **Measured temperature too low:** Displays "L" when measured temperature is lower than 34.0 °C (93.2 °F) in body mode or 0 °C (32 °F) in object mode.



• **Ambient temperature too high:** Displays "H" in conjunction with the "🏠" when ambient temperature is higher than 40.0 °C (104.0 °F).



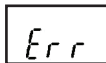
• **Ambient temperature too low:** Displays "L" in conjunction with the "🏠" when ambient temperature is lower than 16.0 °C (60.8 °F) in body mode or is lower than 5.0 °C (41.0 °F) in object mode.



• **Blank display:** Check if the battery has been loaded correctly. Be sure to check the polarity (<+> and <->) of the battery.



• **Error function display:** The system has a malfunction and is not working correctly.



• **Flat battery indication:** If a (steady) battery icon is the only symbol shown on the display, the battery should be replaced immediately (see next page for details).

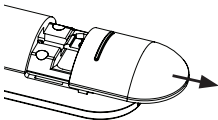


## **CLEANING AND DISINFECTING**

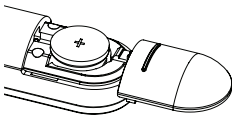
Use an alcohol swab or cotton tissue moistened with alcohol (70% Isopropyl) to clean the thermometer casing and the measuring probe. Ensure that no liquid enters the interior of the thermometer. Never use abrasive cleaning agents, thinners or benzene for cleaning and never immerse the instrument in water or other cleaning liquids. Take care not to scratch the surface of the probe lens and the display.

## **BATTERY REPLACEMENT**

This instrument is supplied with one lithium battery, type CR2032. Replace with a new CR2032 battery when the flashing battery symbol appears on the display. Remove the battery cover by sliding it in the direction shown.



Remove the battery and replace with a new one. Batteries and electronic instruments must be disposed of in accordance with the locally applicable regulations, not with domestic waste.



## **WARRANTY**

This product is warranted against defects in manufacturing during normal use by the original purchaser for one year.

## **TECHNICAL SPECIFICATIONS**

**Type:** Non Contact Thermometer [DT-30]

**Measurement range:**

- Body Mode: 34.0-42.2 °C (93.2-108.0 °F)
- Object Mode: 0-100.0 °C (32-212.0 °F)

**Resolution:** 0.1 °C

**Measurement accuracy:**

Laboratory:  $\pm 0.3$  °C, 36.0 ~ 39.0 °C  
( $\pm 0.4$  °F, 96.8 ~ 102.2 °F)

**Display:** Liquid Crystal Display, 4 digits plus special icons

**Acoustic:**

- The unit is turned ON and ready for the measurement: 1 short beep
- Complete the measurement: 1 long beep (1 sec.) if the reading is less than 37.5 °C (99.5 °F), 10 short "Beep" sounds, if the reading is equal to or greater than 37.5 °C
- System error or malfunction: 3 short "Beep" sounds

**Memory:**

- Auto-Display the last measured temperature
- 50 readings recall in the Memory Mode

**Backlight:**

- The display light will be GREEN for 4 seconds, when the unit is turned ON.
- The display light will be GREEN for 5 seconds, when a measurement is completed with a reading less than 37.5 °C (99.5 °F).
- The display light will be RED for 5 seconds, when a measurement is completed with a reading equal to or higher than 37.5 °C (99.5 °F).

**Operating temperature:**

- Body Mode: 15-40.0 °C (59-104.0 °F)
- Object Mode: 5-40.0 °C (41-104.0 °F)

**Storage temperature:**

-20 °C to +50 °C (-4 °F to 122 °F) 15-95 % relative maximum humidity

**Automatic Switch-off:** Approx. 1 minute after last measurement has been taken.

**Battery:** CR2032 Battery (X1) 3V - at least 1000 measurements

**Dimensions:**  $112\pm 0.3\text{mm} \times 30\pm 0.2\text{mm} \times 24\pm 0.2\text{mm}$

**Weight:**  $50\pm 0.5\text{ g}$  (with battery),  $47\pm 0.5$  (w/o battery)

**Reference to standards:**

ASTM E1965-98; IEC 60601-1; IEC 60601-1-2 (EMC); IEC 60601-1-11; ISO 80601-2-56: 2017



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Follow Instructions for Use. This document provides important product operation and safety information regarding this device. Please read this document thoroughly before using the device and keep for future reference.



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