REF

MODEL DT-32

NON-CONTACT THERMOMETER

Instructions

PRESTIGE MEDICAL®

Thank you for your purchase of the Prestige Medical® Non-Contact Infrared Thermometer.

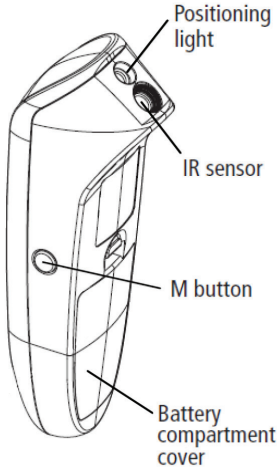
Read this instruction manual carefully before using your thermometer.

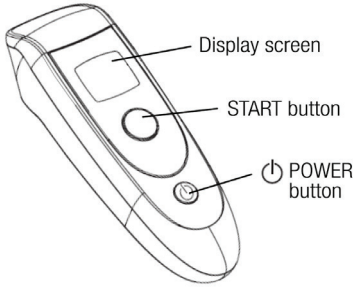
Intended Use

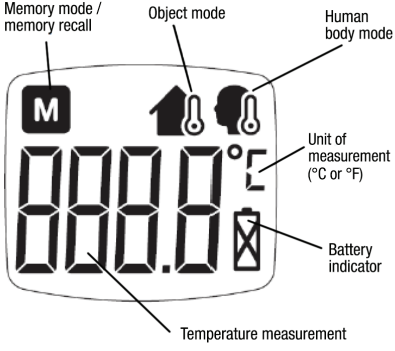
Non-contact measurement of the body by using the surface temperature of the forehead. Can also be used for non-contact measurement of an object.

Device Properties

This thermometer uses a sensor to measure the emission of infrared radiation from the human body or an object.







Features

• Up to 30 temperature measurements can be saved and recalled with the device.

• Direct one-second access to the temperature measurements of the body or an object.

• Fever alarm: Any temperature measurements of more than 99.5°F (37.5°C), an acoustic signal automatically sounds in order to indicate an elevated body temperature.

** Alarm is only for human body measurements*

IMPORTANT SAFETY INFORMATION

• Do not use this device if you believe it is damaged or if you notice something unusual.

• This thermometer should only be operated by those who are 11 years or older.

• This device is not waterproof – do not immerse it in water or other liquids.

• Ensure that this device is not accessible to young children in order to prevent swallowing of batteries or the battery compartment cover.

• Do not open, dismantle or modify this device.

• If the IR sensor gets dirty, carefully clean with a dry cloth or a cotton swab. Do not use paper towels or paper tissues to clean the sensor.

• Do not touch the lens of the IR sensor. Contamination of the lens can cause inaccurate readings.

• Avoid exposing this device to high temperatures, shocks, vibrations, dust, direct sunlight, or high humidity.

• Water, surface liquids (e.g. sweat) or condensate can negatively influence infrared measurements.

• The device contains sensitive electronic components. In order to ensure its measurement accuracy, it must be used and stored according to the descriptions in the user instructions.

• The device must be installed and commissioned according to the information in these instructions.

• Wireless communication devices (wireless routers, cell phones, cordless phones, walkie-talkies, etc.) can influence this thermometer. A clearance of at least 11 feet (3.3 meters) should be maintained from such devices.

• If this device is not used for an extended period of time, please remove the batteries.

WARNING: The measurement results given by this device is not a diagnosis. It should never replace the need for the consultation of a physician.

BEFORE USING FOR THE FIRST TIME

This device contains two AAA (LR03) alkaline batteries which are equipped with an isolating strip. This isolating strip must be removed from the battery compartment before using it for the first time.

CHANGING FROM CELSIUS TO FAHRENHEIT:

1. While the device is powered off, press and hold the START button for 5 seconds until SET and Temperature unit appears on the screen.

2. Press and then release the START button when the desired unit of measurement scale is shown.

3. The selected icons will flash on the screen to confirm the new setting, then the thermometer will turn off automatically after 5 seconds.

IMPORTANT OPERATING NOTES

• For more accurate readings, the patient and thermometer should remain in a consistent room condition for at least 30 minutes before measurement.

• This device measures the skin temperature on the forehead in order to determine human body temperature. Skin temperatures can vary depending on a variety of influences. Some of these include bathing, swimming, athletic activities, sweating, the use of ice packs, extended exposure to high or low temperatures (outdoors). Before taking someones measurement, please wait at least 30 minutes so that the body can adapt to a stable ambient temperature (room temperature).

• Taking your own temperature does not affect readings.

• Please ensure that the skin surface or the surface of the object which is measured, as well as the sensor lens, are dry before performing a temperature measurement. This is to ensure accurate measurement.

• If the measurement is unusually low or doesn't correspond with the condition of the patient, the measurement should be repeated every 15 minutes or compared to a different measurement of core body temperature.

• In the initial stage of a febrile illness, a physiological phenomenon called vasoconstriction (vascular constriction) can occur, which leads to a lower skin temperature. For this reason, a measurement with this thermometer may return an unusually low result.

• Do not use this thermometer immediately after drinking, eating, exercising, or nursing a baby.

• If taking the temperature of an object after it has been microwaved, please be aware of the risk of burns. Surface temperature will be lower than the temperature inside the object.

• Doctors recommend rectal measurement for newborn infants within the first 6 months, as all other measuring methods might lead to ambiguous results. If using a non-contact thermometer on infants in this age range, we always recommend verifying the temperature 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, until they have familiarized themself with the instrument and can obtain consistent readings.

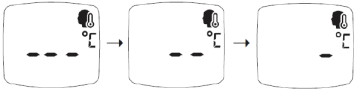
3. If the measurement is surprisingly low. Readings from different measuring sites should not be compared. Normal body temperatures vary by measuring sites and time of day (the highest in the evening and lowest about one hour before waking up).

TEMPERATURE MEASUREMENT (BODY MODE)

1. Press the POWER button in order to start the thermometer in body temperature mode. After activating, the device performs a self-test and switches to body temperature mode after a few seconds. When the thermometer is ready for a measurement in body temperature mode, "- - -" blinks in the display and the symbol for body temperature mode appears.

2.To measure the temperature of the human body, hold the device at a distance of about 2 inches (5 cm) or less in front of the center of the forehead so that the sensor points toward the forehead.

3.Once the thermometer is in the correct position, press the START button to perform a measurement of the body temperature. The measurement process takes about one second. The display indicates that the measurement is running.



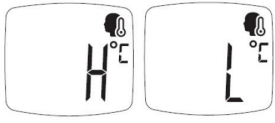
4. If the body temperature is below 99.5°F (37.5°C), the measurement result is displayed with a long tone.

5. If the body temperature is at or over 99.5°F (37.5°C) (as is the case with a fever), there are 3 short tones.

6. After performing a temperature measurement, the thermometer shows the measurement result continuously, and switches off after 1 minute. As soon as the device is ready for a new measurement, there is a short signal tone and the "°C or °F" symbol begins to blink.

To perform another temperature measurement, press the START button and the thermometer starts a new measurement. Once the new measurement is complete, there is a short tone and the new measurement result is displayed.

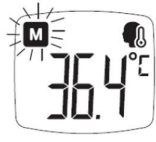
7. If the measurement returns a result that is above or below the specific temperature range for this mode, "H" or "L" is shown in the display and three short tones are emitted. After about 5 seconds, the thermometer is ready to measure again.



8. Press the POWER button in order to switch off the thermometer. OFF will be displayed on the screen. The device automatically switches off after 1 minute.

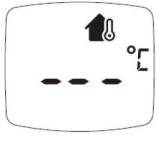
Recall of Last Temperature (Body Mode)

To recall the latest temperature measurement in body temperature mode, press the M button while the thermometer is in body temperature mode. The last body temperature measurement is displayed together with the blinking M symbol for 5 seconds.



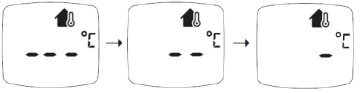
TEMPERATURE MEASUREMENT (OBJECT MODE)

1. With the power off, hold the START button while pressing the POWER button.The device performs a self-test and will be in object mode after a few seconds. When the thermometer is ready for a temperature measurement of an object, the "- - -" symbol blinks in the display and the symbol for object mode appears.



2. To correctly measure the temperature of an object, hold the device at a distance of about 2 inches (5 cm) or less in front of the surface so that the sensor points toward the object.

3.Once the thermometer is in the correct position, press the START button to perform a measurement of the object's temperature. The measurement process takes about one second. The display indicates that the measurement is running.



4. Once the measurement is complete, there is a long tone and the measurement result is displayed.

5. After performing a temperature measurement, the thermometer shows the measurement result continuously, and switches off after 1 minute. As soon as the device is ready for a new measurement, there is a short signal tone and the "°C or °F " symbol begins to blink. To perform another temperature measurement, press the START button and the thermometer starts a new measurement.

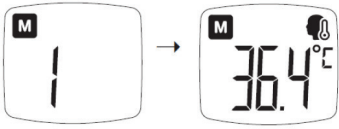
6. If the measurement returns a result that is above or below the specific temperature range for this mode, "H" or "L" is shown in the display and three short signal tones are emitted. After about 5 seconds, the thermometer is ready to measure again.

7. Press the POWER button in order to switch off the thermometer. OFF will be displayed on the screen. The device automatically switches off after 1 minute.

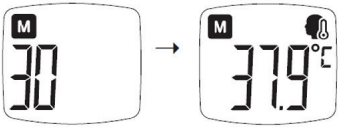
Recall of Last Temperature (Object Mode)
To recall the latest temperature in object mode, press the M button while the thermometer is in object mode. The last measurement is displayed together with the blinking M symbol for about 5 seconds.

RECALLING TEMPERATURES (MEMORY MODE)

1. Press the M button while device is powerd off in order to activate the memory mode. If no measurement results are saved, the thermometer displays "0." If measurement results are saved, the display begins with the latest temperature measurement. "1" appears in the display and automatically changes to display the temperature measurement.



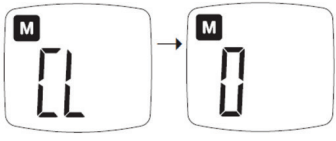
2. Press the M button multiple times in succession to switch to a recorded measurement result (1 to 30).



3. Press the POWER button in order to switch off the thermometer. OFF will be displayed on the screen. The device automatically switches off after 30 seconds.

Clearing All Temperatures in Memory

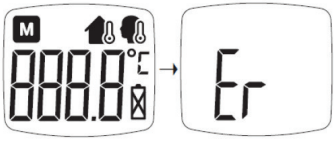
To delete all temperature measurements in the memory mode of the thermometer, hold the START button in memory mode for 5 seconds or longer. The thermometer displays "CL" and all saved temperature measurements are deleted. The display then changes to "0."



ERROR MESSAGES AND TROUBLESHOOTING

Self Test Startup Error:

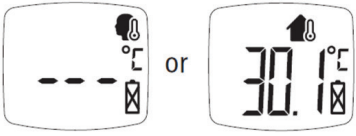
• If the thermometer determines an error during the self-test phase after activation, "Er" is displayed and 3 short acoustic signals are emitted; the device then switches off after 10 seconds.



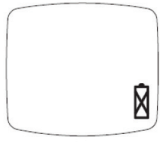
If this occurs, remove the batteries and wait a few minutes before replacing them in the device. Attempt to activate the device again. If the error message should appear again, contact a local dealer.

Low Battery Errors:

• If the batteries are low, the battery symbol appears. Please change the batteries as quickly as possible.



• If the voltage falls below the required power value, the thermometer displays a battery symbol after pressing the POWER button.



• If the batteries are completely discharged, nothing will appear on the display after pressing the POWER button. Replace the batteries. See the **Changing the Batteries** section for more.

Measurement Out of Specified Conditions:

• The thermometer automatically measures the ambient temperature in body temperature mode and object mode. If the ambient temperature is above or below the defined temperature range, a warning is displayed and the temperature measurement is not carried out.

• If the ambient room temperature is more than 104°F (40°C), the warning notice "Er.H" appears and there are 3 short acoustic signals. The thermometer will then switch off after 10 seconds.

• If the ambient room temperature is too low in body temperature mode [less than 59°F (15°C)] or is too low in object mode [less than 41°F (5°C)], the warning notice "Er.L" appears and there are 3 short acoustic signals. The thermometer will then switch off after 10 seconds.

If this occurs, make sure to use the thermometer under the specified environmental conditions. Move the device to an environment with the specified conditions and wait 30 minutes before using it.

STORAGE AND MAINTENANCE

• In order to ensure appropriate performance and long service life, the thermometer should be stored in a dry location between -4°F (-20°C) ~ 131°F (55°C).

• Avoid storing in direct sunlight, and protect it from shocks and vibrations. Do not store in a wet or high humidity location, or in the vicinity of heat sources.

• Remove the batteries from the device if you plan to store it for an extended period of time.

CLEANING THE THERMOMETER

• Use an alcohol-soaked swab or a cotton cloth moistened with alcohol (70% isopropyl) for cleaning.

• Allow the thermometer to dry completely before using again (more temperature measurements).

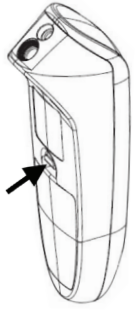
• The device is not waterproof – do not immerse it in water or other cleaning fluids.

• Do not use aggressive or corrosive cleaning agents or solutions - this can damage the device.

CHANGING THE BATTERIES

• The thermometer is operated by two AAA (LR03) alkaline batteries. Please replace the old batteries with new ones when the battery symbol blinks.

• Open the battery compartment cover and remove the batteries. Insert new AAA batteries and take note of the symbols for the poles in the battery compartment: The (+) pole must correspond with the "+" symbol and the (-) pole with the "-" symbol. Close the battery compartment.



• Saved temperature measurements are retained during a battery change.

• Avoid mixing new and old batteries or using batteries from different manufacturers.

• Do not leave old batteries in the device. This can cause the batteries to leak and can damage the device.

Batteries & electronic devices must be disposed of in accordance with the locally applicable regulations, not with domestic waste.

TECHNICAL SPECIFICATIONS

- Dimensions: 140 mm (L) x 43 mm (W) x 47 mm (H)
- Weight: Approximately 93 g (including batteries)
- Range for measurement of body temperature:
  93.2°F (34°C) ~ 108°F (42.2°C)
- Range for measurement of the temperature of objects:
  32.18°F (0.1°C) ~ 211.8°F (99.9°C)
- Resolution: 0.1°C
- Accuracy under laboratory reference conditions:
  Body Mode Temperature Accuracy:
  ±0.2°C in the range from 35°C ~ 42°C
  ±0.3°C in the range < 35°C and > 42°C
  Object Mode Temperature Accuracy:
  ±1.0°C in the range from 0.1°C ~ 99.9°C
- Measurement Distance: Max. 2 inches (5 cm)
- Display: LCD
- Memory: 30 Measured Values
- Backlight: Blue
- Operating Conditions:
  Temperature range: 59°F (15°C) ~ 104°F (40°C)
  Humidity (relative): up to 95% (no condensation)
- Storage and Transport:
  Temperature Range: -4°F (-20°C) ~ 131°F (55°C)
  Humidity (relative): up to 95% (no condensation)
- Automatic Shut-Off:
  60 seconds after a temperature measurement
  30 seconds in memory mode
  10 seconds after an error message or after a deviation in ambient temperature from the defined temperature range
- Voltage/Batteries: 1.5V x 2 AAA (LR03)
- Life of Batteries: At Least 1,000 Measurements
- Anticipated Service Life of the Device: 10 Years
- Protection Against Penetration by Water or Solid Materials: IP 22

Reference Standards:

ASTM E 1965-98
IEC 60601-1
IEC 60601-1-2 (EMC)
IEC 60601-1-11
ISO 80601-2-56:2017/AMD 1:2018

Technical changes reserved

Regular Checks on the Accuracy:

Regular checks on the accuracy of the measurement system should be carried out in accordance with the valid directive of the individual countries, governing this issue.

Professional recalibration is recommended every 2 years at the device lifetime.

Warranty / Customer Service:

We provide a factory warranty for 2 years from the date of purchase for this product. The purchase date must be substantiated by receipt. Within the warranty period, defects resulting from material or production errors will be resolved free of charge. As a result of warranty service, no extension of the warranty period is applied to the entire device, but rather only to the replaced components. Abrasion due to wear, transport damages as well as any damages caused by improper use (e.g. failure to comply with usage instructions) or by the actions of unauthorized parties are excluded from the warranty coverage. No damage compensation claims against us are justified by the warranty.

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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.

Type BF Applied Part

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07/20

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