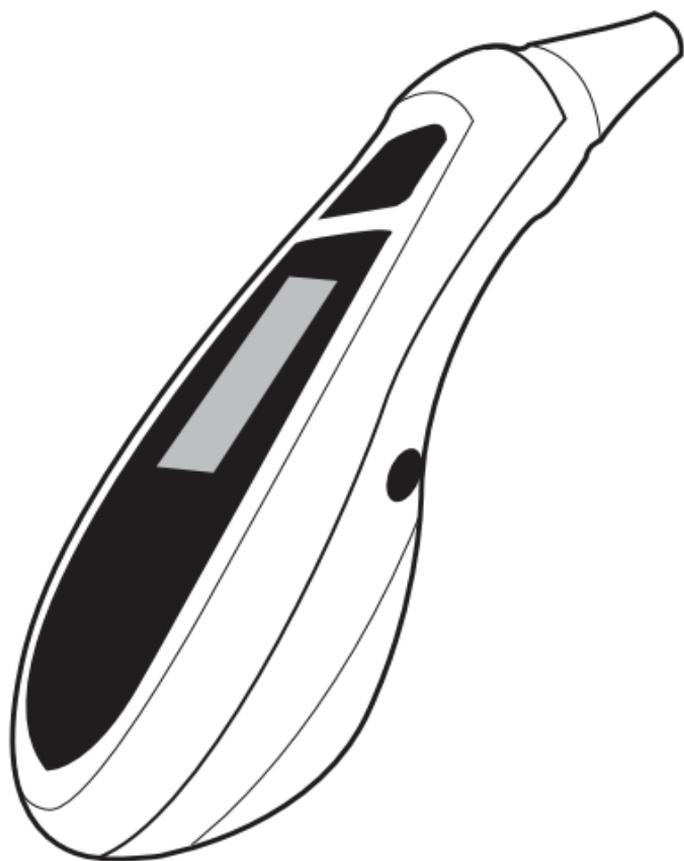




caring mill™

Instant Ear Thermometer



Instruction Manual

Ear Thermometer Instruction Manual



Please read these instructions carefully before using the instrument and keep them in a safe place.

This Ear Thermometer is a high quality product incorporating the latest technology and tested in accordance with international standards. With its unique technology, this thermometer can provide a stable, heat-interference free reading with each measurement. The instrument performs a self-test every time it is switched on to always guarantee the specified accuracy of measurements. This Ear Thermometer is intended for the periodic measurement and monitoring of human body temperature in the home. It is intended for use on people of all ages. This thermometer has been clinically tested and proven to be safe and accurate when used in accordance with its operating instruction manual.

Please read through these instructions carefully so that you understand all functions and safety information.



Type BF applied part

Table of Contents

1. The Advantages of this Ear Thermometer
2. Important Safety Instructions
3. Product Description
4. How this Thermometer Measures Ear Temperature
5. Control Displays and Symbols
6. Directions for Use
7. Changing from Fahrenheit to Celsius and Vice-Versa
8. How to Recall 20 Readings in Memory Mode
9. Error Messages
10. Cleaning and Disinfecting
11. Replacing the Battery
12. Warranty
13. Technical Specifications

1. The Advantages of this Ear Thermometer

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 as an ear thermometer 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

Probe Cover Free

This thermometer is more user-friendly and cost effective since a probe cover is not required.

Measurement in One second

The innovative infrared technology allows measurement of ear temperature in only one second.

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

- The ergonomic design enables simple and easy use of the thermometer.
- This thermometer can even be used on a sleeping child, causing no disruption.
- This thermometer is quick and child-friendly.

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 20 readings when entering the recall mode, enabling efficient tracking of temperature variations.

Safe and Hygienic

- No risk of broken glass or mercury ingestion.
- Completely safe for use on children.
- Cleaning of the probe can be done with an alcohol-moistened cotton tissue, making this thermometer completely hygienic for use by the whole family.

Fever Alarm

10 short beeps and a red LCD backlight alert the patient that he/she may have a temperature above 99.5°F (37.5°C).

2. Important Safety Information

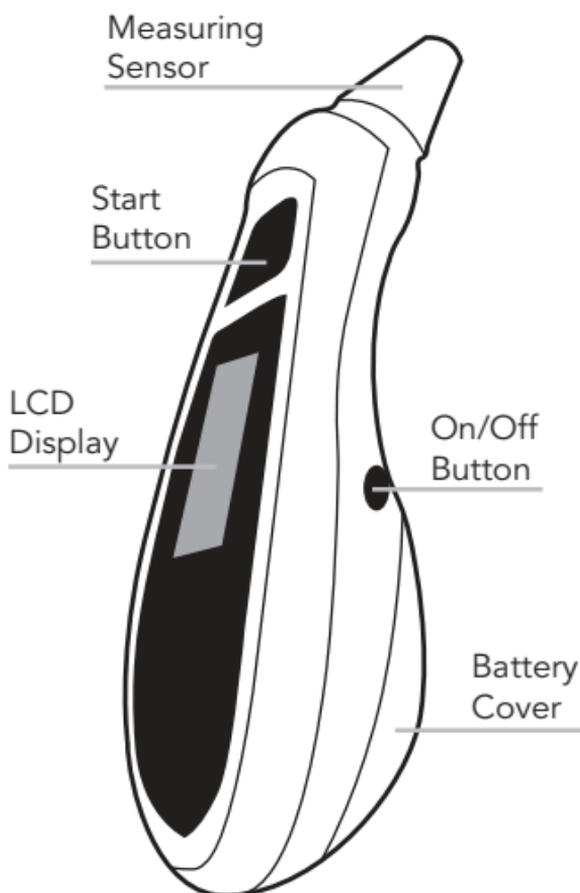
- This instrument may only be used for the purposes described in this booklet. The manufacturer cannot be held liable for damage caused by incorrect application.
- **Never immerse this instrument in water or other liquids. For cleaning please follow the instructions in the *Cleaning and Disinfecting* section.**
- Do not use the instrument if you think it is damaged or notice anything unusual.
- Never open the instrument.
- Earwax in the ear canal may cause a lower temperature reading. Therefore, it is important to ensure the subject's ear canal is clean.
- This instrument is comprised of sensitive components and must be treated with caution. Observe the storage and operating conditions described in the *Technical Specifications* section.
- Protect it from:
 - Extreme temperatures
 - Impact and dropping
 - Contamination and dust
 - Direct sunlight
 - Heat and cold

2. Important Safety Information (Con't)

- If the instrument is not going to be used for a prolonged period, the batteries should be removed.
- Ensure that children do not use the instrument unsupervised; some parts are small enough to be swallowed.

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

3. Product Description



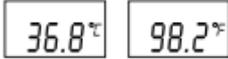
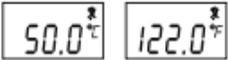
4. How this Thermometer Measures Ear Temperature

This thermometer measures infrared energy radiated from the eardrum and the surrounding tissue. This energy is collected through the lens and converted to a temperature value. The measured reading obtained directly from the eardrum (Tympanic Membrane) ensures the most accurate ear temperature. Measurements taken from the surrounding tissue of the ear canal generate lower readings and may result in misdiagnosis of fever.

To avoid an inaccurate measurement:

1. Switch on the thermometer by pressing the On/Off button.
2. After one beep is heard (and the temperature scale icon is flashing), straighten the ear canal by gently pulling the middle of the ear back and up.
3. Place the probe firmly into the ear canal, press the START button and keep the probe in the ear until the thermometer beeps to signal the completion of the measurement.

5. Control Displays and Symbols

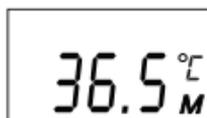
LCD Display	Display Meaning	Description
	All segments displayed	Press the On/Off button to turn on the unit, all segments will be shown for 2 seconds.
	Memory	The last reading will be shown on the display automatically for 2 seconds.
	Ready	The unit is ready for measurement, the °C or °F icon will keep flashing.
	Measurement complete	The reading will be shown on the display with the °C or °F icon; the unit is ready for the next measurement when the °C or °F icon is flashing again.
	Out-of-ear temperature indication	A crossed-ear icon is shown on the LCD if the reading falls outside of the range 32.0°C – 42.2°C (89.6°F – 108.0°F).
	Low battery indication	When the unit is turned on, the battery icon will keep flashing to remind the user to replace the battery.

6. Directions for Use

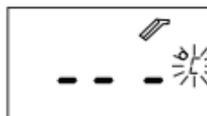
1. Press the On/Off button. The display is activated to show all segments for 2 seconds.



2. The last measurement reading will automatically be shown on the display for 2 seconds with the «M» icon.



3. When the «°C» or «°F» icon is flashing, a beep sound is heard and the thermometer is ready for measurement.



4. Straighten the ear canal by pulling the ear up and back to give a clear view of the eardrum.

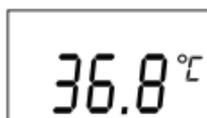
- For children under 1 year; pull the ear straight back.
- For children 1 year to adult; pull the ear up and back.



5. While gently pulling the ear, insert the probe snugly into the ear canal (max. 1 sec.) and immediately press the START button. Release the button and wait for the beep sound. This confirms the end of the measurement.



6. Remove the thermometer from the ear canal. The display shows the measured temperature.



6. Directions for Use (Con't)

NOTE: To ensure accurate readings, wait at least 30 sec. after 3-5 continuous measurements.

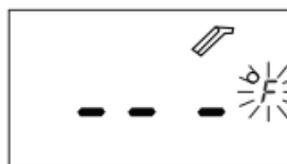
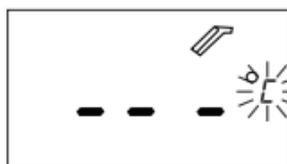
- Accumulation of ear wax on the probe can result in less accurate temperature readings or cross infection between users. Therefore, it is essential that the probe is clean before each measurement. For cleaning, follow the instructions in the *Cleaning and Disinfecting* section.
- After cleaning the measuring sensor with alcohol, wait 5 minutes before taking the next measurement in order to allow the thermometer to reach its operating reference temperature.
- Ten short beeps and a red LCD backlight alert the patient that he/she may have a temperature above 37.5°C (99.5°F)
- For an infant, it is best to have the child lying flat with his/her head sideways so the ear is facing upwards. For an older child or adult, it is best to stand behind and slightly to the side of the patient.
- Always take the temperature in the same ear, since the temperature readings may be different from ear to ear.
- Wait for a few minutes to take the ear temperature after sleeping.
- In the following situations it is recommended that three temperatures in the same ear be taken and the highest one taken as the reading:
 1. Newborn infants in the first 100 days.
 2. Children under three years of age with a compromised immune system and for whom the presence or absence of fever is critical.
 3. When the user is learning how to use the thermometer for the first time until he/she has familiarized himself/herself with the instrument and obtains consistent readings.
 4. If the measurement is surprisingly low.

7. Changing from Fahrenheit to Celsius

The thermometer can display temperature measurements in either Fahrenheit or Celsius. To switch the display between °C and °F, simply turn OFF the unit, press and hold the START button for 5 seconds until « - - - » and the flashing «°C» or «°F» icon is shown on the LCD.

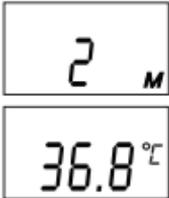
Switch the measurement scale between °C and °F by pressing the START button again.

When the measurement scale has been chosen, wait for 5 seconds and the unit will enter the ready for measuring mode automatically.



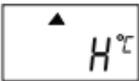
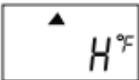
8. How to Recall 20 Readings in Memory Mode

This thermometer can recall the last 20 readings. To recall follow this sequence:

LCD Display	Display Meaning	Description
	Recall Mode	Press the START button to enter Recall Mode when power is off. The memory icon <M> flashes.
	Reading 1 (the last reading)	Press and release the START button to recall the last reading. Display 1 along with memory icon.
	Reading 2 (the second latest reading)	Press and release the START button to recall the second latest reading.
	Reading 12 (out of 20 readings stored)	Press and release the START button consecutively to recall readings in succession, up to the last 20 readings.

Pressing and releasing the START button after the last 20 readings have been recalled will resume the above sequence from reading 1.

9. Error Messages

LCD Display	Display Meaning	Description
 	Measured temperature too high	Displays «H» when measured temperature higher than 100.0°C or 212.0°F.
 	Measured temperature too low	Displays «L» when measured temperature lower than 0°C or 32.0°F.
 	Ambient temperature too high	Displays «H» in conjunction with the «▲» when ambient temperature is higher than 40.0°C or 104.0°F.
 	Ambient temperature too low	Displays «L» in conjunction with the «▼» when ambient temperature is lower than 5.0°C or 41.0°F.
	Error function display	When system has malfunction.
	Blank display	Please check if the battery has been loaded correctly. Also check polarity (<+> and <->) of batteries.
	Dead battery indication	If the steady battery icon is the only symbol shown on the display, the batteries should be replaced immediately.

10. 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. Remove the battery from the instrument if it is not required for extended periods of time in order to avoid damage to the thermometer resulting from a leaking battery.

11. Replacing the Battery

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. Loosen the screw on the back of the thermometer to remove the battery cover. Remove the battery and replace with a new one.

12. Warranty

This thermometer is guaranteed for two years from the date of purchase against manufacturer's defects under normal household use. Following the directions closely will ensure years of dependable operation.

The warranty covers the instrument only. Batteries and packaging are not included. Opening or altering the unit invalidates the warranty. Warranty does not cover damage caused by improper handling, discharged batteries or noncompliance with the operating instructions.

13. Technical Specifications

Type: Infrared Ear Thermometer IR1DY1-1-PRO

Measuring Range: 0°C to 100°C (32.0°F to 212.0°F)

Accuracy:

Laboratory: $\pm 0.2^{\circ}\text{C}$, $32.0 \sim 42.2^{\circ}\text{C}$ ($\pm 0.4^{\circ}\text{F}$, $89.6 \sim 108^{\circ}\text{F}$)
 $\pm 1^{\circ}\text{C}$, $0 \sim 31.9^{\circ}\text{C}$ & $42.3 \sim 100^{\circ}\text{C}$
($\pm 2^{\circ}\text{F}$, $32.0 \sim 89.5^{\circ}\text{F}$ & $108.1 \sim 212.0^{\circ}\text{F}$)

Display: Liquid Crystal Display with indicating unit 0.1°C/°F

Acoustic:

- The unit is turned ON and ready for the measurement:
1 short <bi> sound.
- Complete the measurement: 1 long beep (1 sec), if the reading is $< 37.5^{\circ}\text{C}$ (99.5°F), 10 short <beep> sounds if the reading is $\geq 37.5^{\circ}\text{C}$ (99.5°F)
- System error or malfunction: 3 short <bi> sounds.

Memory:

- Auto-display the last measured temperature when switched on.
- 20 readings recall in the Memory Mode.

Backlight:

- The display will be lighted 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 or higher than 37.5°C (99.5°F).

Operating Temperature: 10°C to 40°C (50°F to 104°F)

Storage/transport Temperature: -25°C to 55°C (-13°F to 131°F)

Automatic Switch-off: Approximately 1 minute after last measurement

Battery: CR2032 Battery (X1) - at least 1000 measurements

Dimensions: 113 mm (L) x 43 mm (W) x 29 mm (H)

Weight: 56 g (with battery), 53 g (w/o battery)

Reference to Standards:

Device Standards: Device corresponds to the requirements of the standard for infrared thermometers: ASTM E 1965
EN 12470-5, IEC 60601-1, IEC 60601-1-2

Electromagnetic Compatibility: Device fulfills the stipulations of the standard IEC 60601-1-2

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