



Infrared Ear Thermometer (Cover-free design)

(For ear canal measuring)

User's Instructions

Please read the instructions carefully before using.

The ear thermometer is a device capable of achieving infrared temperature measurement when placed in the auditory canal of a subject. It is a safe means of measuring human body temperature through the ear.

Specification:

The standard we adopted is EN12470-5:2003 Clinical thermometers -- Part 5: Performance of infra-red ear thermometers (with maximum device).

This device complies with the requirements of IEC 60601-1, IEC 60601-1-11 and IEC 60601-1-2.

Range of displayed temperature : 34.0°C~44.0°C (93.2°F~111.2°F)

Display **L** when the temperature is under 34.0°C (93.2°F)

Display **H** when the temperature is over 44.0°C (111.2°F)

Operating ambient:

Temperature: 16°C~35°C (60.8°F~95.0°F)

Humidity: ≤85%RH

Storage and transport condition:

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

Humidity: 85%RH

Display resolution temperature range: 0.1°C (0.1°F)

Accuracy: ±0.2°C (from 35.5°C to 42.0°C)


±0.4°F (from 95.9°F to 107.6°F)

Display: liquid crystal display, 3½ digits

temperature value: display the maximum temperature in measuring process

temperature unit: Centigrade or Fahrenheit

display of memory: last ten memories

low voltage warning: the LCD display  and then a beep sound is heard

Power consumption: ≤30 mW

Battery: one 3V Lithium battery (CR 2032). Battery included.

Battery life: 2000 takes

Dimensions: 110 mm × 35 mm × 35 mm

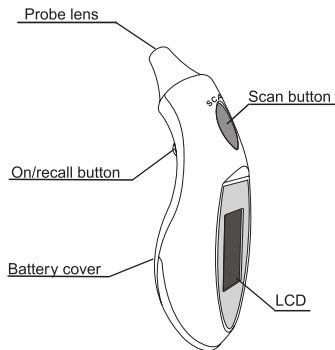
Net weight: Approx. 36 g

Beeper sign: on/off, measuring finish and low voltage warning, etc.




Self-testing sequence: Press the 'on/recall' button to turn on the thermometer and all of symbol (See Fig A) should be displayed on the LCD in one second.

Calibration frequency: If used privately no calibration is needed. For professional use it is recommend to check once a year.

Manufacturing and Calibration date: See the label in the battery box.



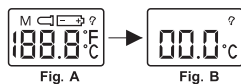
Cautions

1. Before measuring, the thermometer should be stabilized at least 30 minutes.
2. Keep ear canal clean, or measuring result could be inaccurate.
3. The ' ? ' symbol on the LCD indicates ready to measure.
4. To avoid damage, please don't scratch the probe membrane.
5. If the LCD does not change, please take the battery out and put in again.
6. Please don't use the thermometer if the ear canal is inflamed.
7. : Type BF equipment.
8. : Product disposal instructions for electronic devices.
9. : The battery in this product complies with the requirements stated in European Directives 2006/66/EEC.

How to use (°C displays for example)

Measuring human body temperature in the Ear Canal

1. Press the 'on/recall' button to turn on the thermometer, a beep sound is heard and the LCD displays as Fig. A in one second.
When the LCD displays as Fig. B, it's ready to measure.
2. Straighten the ear canal by pulling the outer ear up and back to give a clear view of the eardrum.
 - For children under 1 year, pull the ear straight back.
 - For children ages 1 year to adult, pull the ear up and back. (Caution: Many pediatricians suggest use of ear thermometers for children older than 6 months.)
3. While pulling the outer ear, insert the probe snugly into the ear canal (best to insert deep), press the 'scan' button and release. When you hear a beep sound, the measurement is complete. Remove the thermometer from the ear. The LCD displays the measured temperature.
4. Measuring again: If measuring again, please wait for the '?' symbol display, then press 'scan' button to measure again. **Advice: The time between each reading should be not less than 1 min.**
5. **Memory search:** Press the 'on/recall' button, the last ten memories (NO.10-NO.01) will take turns to display on the LCD as Fig. C and Fig. D.
6. The LCD will display 'Err' as Fig. E and cannot display temperature when the ambient temperature is out of the range of 16°C to 35°C.
Note: Before measuring, the thermometer should be stabilized at the operating ambient condition for a minimum of 30 mins.
7. **Shut off:** The thermometer shall automatically shut off in one minute.
Press and hold the 'on/recall' button until the LCD shows, as Fig. F, then release. The thermometer will power off.



Newborn-1 year

1 year-adult



Fig. C



Fig. D

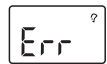


Fig. E



Fig. F

Changing from Celsius to Fahrenheit (only for switchable type)

To switch the display between °C and °F, turn the unit on. Press and hold the on/recall button until the LCD shows as Fig G, then release. The unit will prepare for a measurement.

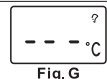


Fig. G

Product disposal

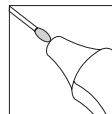
Please ensure environmental protection. Batteries cannot be disposed in domestic waste. Please hand them in at a collection point or the municipal recycle material center as special waste.

This symbol on products and/or accompanying documents means that consumed electronic products must not be mixed with conventional domestic waste. Take these products to the corresponding collection points for correct treatment and recycling, where they will be accepted free of charge. For more information on the closest collection point, please inquire with your local authorities.



Cleaning and Storage

1. Store thermometer in a dry location free from dust and contamination and away from direct sunlight. The ambient temperature at the storage location should remain fairly constant and within the range of -25°C to 55°C.
2. Use an alcohol swab or cotton swab moistened with alcohol (70% medical alcohol) to clean the thermometer casing and the measuring probe. Ensure that no liquid enters the interior of the thermometer.
3. Never use abrasive cleaning agents, thinners or gasoline for cleaning and never immerse the instrument in water or other cleaning liquids. Take care not to scratch the surface of the probe lens or display.



Replacing the battery

1. When voltage of the battery is low, the LCD will display the battery icon, insert a new battery in the unit. The thermometer cannot work accurately under conditions of low voltage.
2. The thermometer is supplied with a 3 V LITHIUM BATTERY (CR 2032). Insert a new battery when the low voltage symbol appears on the LCD.
3. Remove the battery cover and pull down the metal button (see Fig. H). The battery will eject for easy removal.
4. Insert a new battery with positive pole "+" up and negative pole "-" down.
5. Please remove the battery to avoid battery leaking if unit not used for over six months.
6. The disposal of the battery and the device should comply with the local environmental requirements.

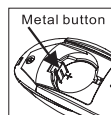


Fig. H

Quality warranty

If used correctly according to this operating manual, this thermometer is guaranteed for two years from the date it left the factory.