Romed
HOLLAND

Romed Infra-red ear thermometer (Cover Free Design)

(Using for ear cannal measuring)

User's Instruction

MODEL: THERM-B100 CE

Please read the instruction carefully before using.

The Romed ear thermometer is a device capable of achieving infra-red 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 60601-1:1998, and IEC 60601-1-2:2001.

Range of d isplayed temperature : 34.0℃~44.0℃
Display L℃(L℉) when the temperature is under 34.0℃
Display H℃(H℉) when the temperature is over 44.0℃

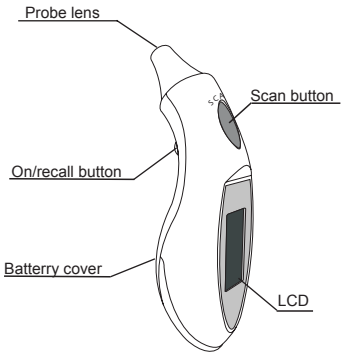
Operating ambient:
Temperature: 16℃~35℃
Humidity: ≤80%RH

Storage and transport condition:
Temperature: -25℃ to 55℃
Humidity: 85%RH

Display resolution temperature range: 0.1℃

Accuracy: ±0.2℃ (from 35.5℃ to 42.0℃)

Display: liquid crystal display, $3\frac{1}{2}$ 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: 9 millionwatt in measurement mode

Battery: one 3V Lithium battery (CR 2032)

Battery life: 4000 takes

Dimension: 110mm by 35mm by 35mm

Net weight: Approx.37g

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: two years

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

⚠ Cautions

1. Before measuring, the thermometer shall be stabilized at least 30min under operating condition.
2. Please keep your ear canal clear, if not, the measuring result shall be inaccurate.
3. The symbol ' ?on the LCD shows you can measure in the ear;
4. Please don't scratch the probe membrane, if not the thermometer shall lose the efficiency;
5. If the LCD no changes under pressing any button, please take the batteries out and put in again;
6. Please don't use the thermometer if your ear canal has been infected.
7. : Type B 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 (℃ displays for example)

Measuring human body temperature in the Ear Canal

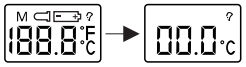


Fig A

Fig B

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, now 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.)


Newborn-1 year


1 year-adult

3. While pulling the outer ear, insert the probe snugly into the ear canal (best to insert deep), press the 'scan' button, release it. When you hear a beep sound, the measurement is complete. Then remove the thermometer from the ear. The display show the measure temperature.

4. Measuring again: If measuring again, please unclinch the 'scan' button and wait for the ' ? ' symbol to display, then press 'scan' button to measure again. Advice : The time between each reading should be not less than 1 mins.

5. Memory seach: Press the 'on/recall ' button, the last ten memories (NO.9-NO.0) will take turns to display on the LCD as Fig C and Fig D.

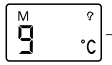


Fig C

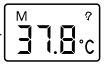


Fig D

6. The LCD will displays 'Er 1' as Fig E and cannot displays temperature when the ambient temperature is out of the range of 10℃to 35℃.
Note: Before measuring, the thermometer shall be stabilized at the operating ambient condition for a minimum of 30 min.

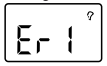


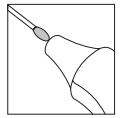
Fig E

7. Shut off: The thermometer shall automatically shut off without manipulating in one minute.

Product disposal

Please ensure environmental protection. Batteries do not belong in the domestic waste. Please hand them in at collection point or the municipal recycle material centre 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.

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℃ to 55℃.
2. Use an alcohol swab or cotton swab moistened with alcohol (70% Isopropyl) 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 batteries

1. When voltage of the battery is low, the LCD will display ' ' symbol, please replace a new battery in the unit. The thermometer cannot work accurately under the condition 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),the battery will be bounced out, then you can take out the old battery.
4. Place a new battery, the positive pole "+ " up and negative pole " - " down.
5. Please take out the battery to avoid battery leaking if unit not used for over six months.
6. The disposal of the battery and the device shall comply with the local environment requirements.

Romed - Holland | Van Oostveen Medical B.V.
Herenweg 269 | 3648 CH Wilnis | The Netherlands | info@romed.nl | www.romed.nl

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