Infra-red forehead thermometer

SMS-FT100E-EN-01:1.1
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Model: FT-100E(Talking non-contact thermometer)

Instructions for use

CE 0197

Please read the instruction carefully before using.

The infrared forehead thermometer is an electronic thermometer using an infrared sensor to measure human body temperature for people of all ages, Its operation is based on measuring the natural thermal radiation emanating from the forehead.

Specification:

Reference to the standard of EN12470-5:2003 Clinical thermometers -- Part 5: Performance of infra-red ear thermometers (with maximum device) and ASTM E 1965-98:Standard specification for infrared thermometers for intermittent determination of patient temperature.

Measurement range :

Body mode: 32.0℃~42.9℃(89.6℉~109.2℉)
Accuracy: ±0.3℃ (32.0℃ ~ 42.9℃)
±0.5℉ (89.6℉ ~ 109.2℉)
Surface mode: 0℃~60.0℃(32.0℉~140.0℉)
Accuracy: ±1.0℃ (0℃ ~ 60.0℃)
±2.0℉ (32.0℉ ~ 140.0℉)
Room mode: 0℃~40.0℃(32.0℉~104.0℉)
Accuracy: ±0.5℃ (0℃ ~ 40.0℃)
±0.9℉ (32.0℉ ~ 104.0℉)

Operating ambient for body and surface mode:
Temperature: 10℃~40℃(50.0℉~104.0℉)
Humidity:≤85%RH
Atmospheric pressure : 700~1060hPa   Altitude : ＜2000m

Operating ambient for room mode:
Temperature: 0℃~40℃(32.0℉~104.0℉)
Humidity:≤85%RH
Atmospheric pressure : 700~1060hPa   Altitude : ＜2000m

Storage and transport condition:
Temperature: -20℃ to 55℃(-4℉ to 131℉)
Humidity: ≤93%RH

Display resolution temperature range: 0.1℃(0.1℉)

Display: tricolor illuminated display. green: normal temperature,orange: low fever, red: high fever
temperature value: display the maximum temperature in measuring process
temperature unit: ℃ or ℉
display of memory: last 32 memories
low voltage warning: the LCD display ' '

Power consumption: ≤300mW
Battery: two 1.5V alkalescence batteries (AA)
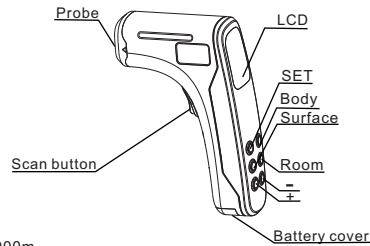**Battery life:** over 4000 times with 2pcs of AA battery
Shelf life: 3 years
Dimension: 142mm×38mm×92mm
Net weight:104g

Self-check test: Press any button but the " +/- " button to turn on the thermometer and all of the symbols (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 date: See the label under the battery compartment

Probe LCD
SET
Body
Surface
Scan button
Room
±
Battery cover

⚠ **Cautions**

1. **Before measuring, the thermometer shall be stabilized at least 30min under operating condition.**

2. **Do not expose the thermometer to the electric shock.**

3. **Do not modify this device without the authorization of the manufacturer.**

4. **Do not expose the thermometer to the sunlight or immerse it into the water.**

5. **Do not use near strong electromagnetic fields, i.e. Keep it away from any radio systems or mobile phones.**

6. **This device must always be kept in a clean, dry area.**

7. **If the temperature is not in the normal range, please consult your doctor in time**

8. **Do not impact the thermometer, otherwise it may affect the accuracy of the measurement**

How to use (Body mode and ℃ displays for example)

1. Press the **'SET'** button to turn on the thermometer, the LCD displays as Fig A in one second.
When the LCD displays as Fig B, it is ready for use.
2. The probe shall be aimed at the forehead, from a distance of (3-5)cm, press the **'SCAN'** button and then release it. When the measurement is complete, the thermometer will report the measured temperature, at the same time you can remove the thermometer away. The display shows the measured temperature.
Note: Display as Fig C shows when the measured temperature is lower than the measurement range.
Display as Fig D shows when the measured temperature is higher than the measurement range.
When the illuminated display is orange, that indicates you may have a low fever. And the display is red, that indicates you may have a high fever.
3. **Setting the mode:** turn on the thermometer, after the self-check, press the 'Body/Surface/Room' button to choose the measurement mode. The symbol '⏱' means the body mode, '🖥' means the surface mode, '⌂' means the room mode.
Note: You can also press the '+'or'-' button to set the body mode or surface mode, when the LCD displays as Fig G shows.For the room mode, press the Room button to take the room temperature ,if press the Scan button in room mode, it will transfer to the previous mode

Takes turns to press the 'SET' button, the LCD will show as Fig E to Fig I accordingly.
4. **Unit switch:** When the LCD display as Fig E, then press the '+'or'-' button to switch the unit between ℃ and ℉.
5. **Set the fever alarm temperature point:** When LCD displays as Fig F shows, then press the '+'or'-' button to set the temperature point.
6. **Temperature correction:** When the LCD displays as Fig H shows, then press the '+'or'-' button to set the modified value according to your skin temperature.
7. **Language option:** When the LCD displays as Fig I shows, then press the '+'or'-' button to choose the language(As Fig J shows),or turn it off (As Fig K shows).
8. **Memory search:** Out of the SET function, press the '+' button, the memory temperature will take turns to display on the LCD from 'M32' to 'M01', and press the '-' button, the memory temperature will take turns to display on the LCD from 'M01' to 'M32' .
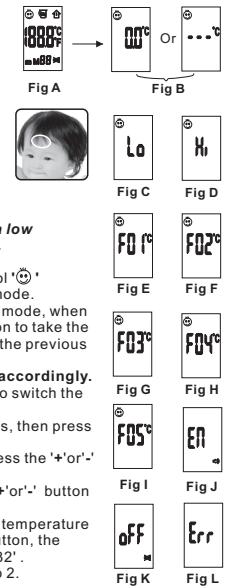9. **Measuring again:** If you want to measure again, repeat the step 1 and step 2.
Note: The time between each reading should be not less than 1min.
10. The LCD will display as Fig L and cannot display temperature when the ambient temperature is out of the operating ambient.
Note: Before measuring, the thermometer shall be stabilized at the operating ambient condition for at least 30 min.
11. **Shut off:** The thermometer will automatically shut off after 1 minute of inactivity. Or press the **'SET'** button for about 4 seconds, then the thermometer will be shut off.
Important: The area temperature differs from the internal body temperature. To obtain the internal temperature always use the body mode. Please make sure to select the body mode for an internal temperature reading and the surface temp mode for an external area reading.

Fig A   Fig B
Fig C   Fig D
Fig E   Fig F
Fig G   Fig H
Fig I   Fig J
Fig K   Fig L

Explanation of symbols

▭	battery is empty	Ⓜ	Memory	⚠ Read IFU carefully
	Product disposal instructions for electronic devices	🖈	Type BF equipment	Authorised representative in the european community
	The battery in this product complies with the requirements stated in European Directives 006/66/EEC.	CE	CE conformity marking	Manufactured by
		L℃ or L℉ subject temperature is under 34℃		IP22 Classification according to the degree of protection against ingress of water as detailed in IEC 60529
		H℃ or H℉ subject temperature is above 44℃		LOT Lot number

Cleaning and Storage
1. Store the thermometer in a dry location free from the dust and contamination and away from the direct sunlight. The ambient temperature at the storage location should remain fairly constant and within the range of -20℃ to 55℃.
2. Use an alcohol swab or cotton swab moistened with alcohol (70% isopropyl) to clean the thermometer body, if it is dirty. 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 thermometer into the water or other cleaning liquids. Take care not to scratch the surface of the display.

Replacing the batteries
1. When voltage of the batteries are low, the LCD will display ' ' symbol, please replace two new batteries in unit. The thermometer cannot work accurately under the condition of low voltage.
2. The thermometer is supplied with two 1.5V ALKALESCENCE BATTERIES (AA). Change the two batteries when the low voltage symbol appears on the LCD.
3. Remove the battery cover and take out the old batteries.
4. Place two new batteries according to the '+' or '-'.
5. Please take out the batteries to avoid battery leaking if the unit is not used for over three months.
6. The disposal of the battery and device shall comply with the local environment requirements. The battery or fuel cell may lead to excessive temperatures, fire or explosion.

Quality warranty
This thermometer is guaranteed for one year under proper use according the operating manual from the date that the product is sent out the factory.The manufacturer will make available on request circuit diagrams, component part lists, descriptions, calibration instructions, or other information that will assist service personnel to repair those parts of device.