



**Non-contact Infrared Thermometer
Model:MS-131002**



Thermometer Applications

Thermometer Model Number	Thermometer Style	Adult		Pediatric	
		Ear	Forehead	Ear	Forehead
MS-131002	Non Contact Infrared Body Thermometers		√		√

The Non Contact Infrared Body Thermometer are designed to be used for intermittent measurement and monitoring of human body temperature by consumers in the home setting and primary care setting as screening tool.

- If measure human forehead temperature , please select "body" mode; for measure other objects, liquids, food and other temperature please select "surface" mode.

Do not touch the sensor of infrared detection with your fingers.

It may affect the accuracy of measurements when the forehead is covered by hair, perspiration, cap or scarf.

When the ambient temperature of the thermometer changes too much, such as moving the Thermometer from one place of lower temperature to another place of higher temperature, allow the thermometer to remain in a room for 30 minutes where the temperature is between 15 °C to 35 °C (59 °F - 95 °F).

Power Supply Requirements	
Batteries	1.5V (AAA) alkaline batteryX2 (IEC Type LR03)

Do not mix the old and new batteries to avoid damage to the product.

Only use recommended batteries. Do not use rechargeable batteries.

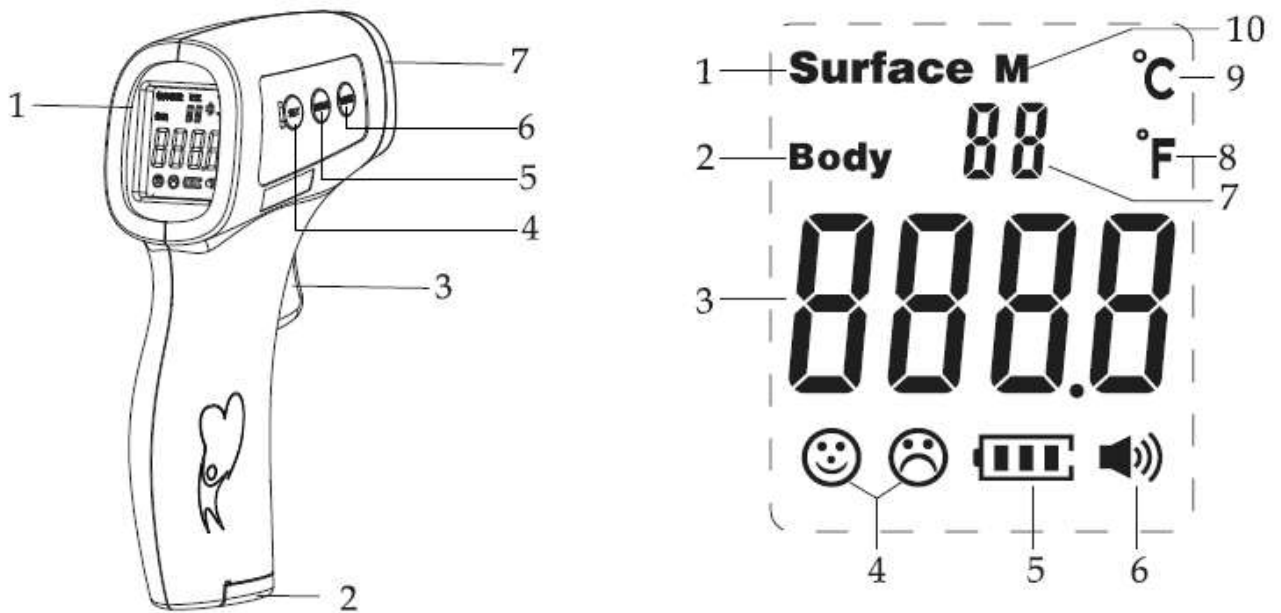


Figure 1: HTD8813C Infrared body thermometer

1. LCD Display
2. Battery Cover
3. ON/Scan Button
4. Set Button
5. MEMO Button
6. MODE Button
7. IR Sensor

- 1.Surface Mode
- 2.Body Mode
- 3.Digital Display
- 4.Smile or Cry Indicator
- 5.Battery Indicator
- 6.Buzzer on/off Indicator
- 7.Memory number
- 8.°F
- 9.°C
- 10.Memory

Technical Specifications

Measurement Unit	°C / °F
Operating mode	Adjusted mode(Body mode) Direct mode(surface mode)
Measuring site	Forehead
Reference Body Site	Axillary
Rated output range	Body mode: 35.0°C - 42.0°C / 95.0°F -107.6°F Surface mode: 0.0°C - 100.0°C / 32.0°F-212.0°F
Extended output range	Body mode: 34.0°C - 34.9°C / 93.2°F-94.8°F, 42.1°C- 42.9°C /107.8-109.2°F
Range	Body mode:34.0°C - 42.9°C / 93.2°F-109.2°F Surface mode: 0.0°C -100.0°C / 32-212°F
Accuracy	Body mode: 34.0°C - 34.9°C :±0.3°C / 93.2°F-94.8°F:±0.5°F; 35.0°C - 42.0°C :±0.2°C /95.0°F-107.6°F:±0.4°F; 42.1°C - 42.9°C :±0.3°C /107.8°F-109.2°F: ±0.5°F;

Three-color Backlight (Color Alarm)	35.5°C-37.3°C / 95.9°F-99.1°F: Green (Normal Temperature); 37.4°C-38.0°C(Alarm point) / 99.3°F-100.4°F: Yellow (Slight Fever) 38.1°C-42.9°C / 100.6°F-109.2°F: Red(High Fever) Note: 1.Surface mode is always with Green backlight. 2. In body mode 34.0°C-35.4°C is with green backlight.
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Note: Not intended to be sterilized. Not for use in an OXYGEN RICH ENVIRONMENT

2.2 How to operate

Before Applying the Thermometer

Be sure to read and understand all Warnings listed of the instructions before use.

- The thermometer is aligned with the middle of the forehead to measure body temperature (between the eyebrows above) and keep the vertical distance, press the On/Scan button, temperature display immediately, see figure 2.

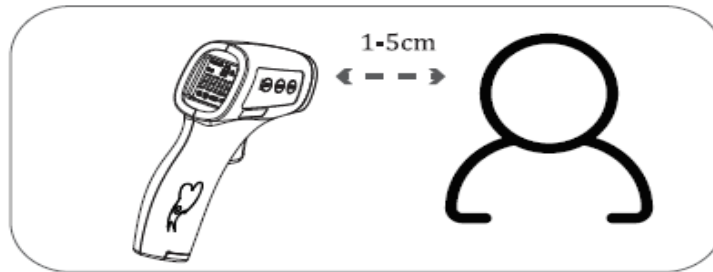


Figure 2-Measuring position and distance

- When the ambient temperature of the thermometer changes too much, such as moving the Thermometer from one place of lower temperature to another place of higher temperature, Allow the thermometer to remain in a room for 30 minutes where the temperature is between 15°C to 35°C .
- The ambient temperature around the test person should be stable, should keep away from the larger flow fan, air-conditioning vents and so on.
- When people moving from one place of lower temperature to another place of higher temperature, should at least remain in the test environment more than 5 minutes, to be consistent with the ambient temperature after the re-measurement.
- Wait at least 1 second for the next measurement. If the continuous measurement of five times, it is recommended to wait at least 30 seconds and then continue measurement.
- You cannot use the thermometer in place where the sun is strong.
- If for some reason the low forehead temperature measurement can try to align behind the ears. See figure 3.

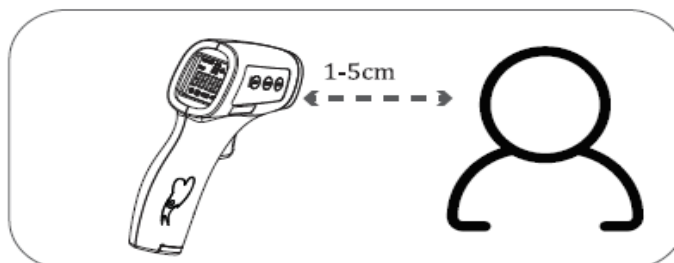


Figure 3- Align behind the ears to measurement

General Setup and Use

■ Start measuring

1. Turn on the thermometer by pressing the On/Scan button. The thermometer will perform self-test with all segments displayed for 2 seconds.

2. Align staff forehead to keep the distance, and then press the On/Scan button to start the measurement, read the data.

Note: 1) After full display over, you will hear a rattle or "beep beep beep" three times, which means that the measurements have been completed, while the target value of the measured temperature is displayed on the LCD, while backlit display according to

the appropriate setting among the three colors red, green, yellow one of. And the Green means ready for next measurement. When 37.4°C - 38.0°C , it's yellow, means slight fever warning. Please pay attention to body temperature. When the body temperature is above 38.1°C , it's red, means high fever. Please take action to cool down or go for a doctor.

2) To ensure the accuracy of the measurement, wait at least 30 seconds after 5 consecutive measurements.

■ Mode conversion










When the device is running, press the MODE button to cycle conversion between "body" mode and "surface" mode.

"body" mode is used for measuring human body temperature, the "surface" mode is used to measure the surface temperature. (The factory default is "body" mode).

■ Recalling and Erasing Memory Data

The last temperature taken before the thermometer powers off is stored in memory, up to 50.

3- TROUBLESHOOTING

MESSAGE	SITUATION	SOLUTION
 Body °C Hi	Temperature taken in not within Typical human temperature range. (34.0°C - 42.9°C or 93.2°F - 109.2°F).	Make sure the forehead thermometer is for forehead measurement, not other human body site.
 Body °C Lo		
 Body °C Lo	Measured over the distance 1-5 cm(0.4-2 in).	Optimum measurement distance is 1cm.
	Incorrect test position.	See figure 2 Measuring position and distance.
	Subjects forehead hair, Antipyretic stickers, head with sweat, etc.	Subjects sit quietly 5-10 minutes before the test.
	Some people's body temperature is lower than the general population.	The main concern fever temperature
 Body °C Err	F4 overall temperature offset is set incorrectly	Adjust the temperature offset value
 Body °C Err	Operating temperature exceeds the range of specified temperature.	Move to a room within the operating range wait 30 minutes before taking temperature.
	The screen flicker, automatic turn off.	Replace battery or the product has been damaged, needs repairs.
	Battery capacity is too low. Taking Temperature is not allowed.	Install a new battery
 POS	Ambient temperature changes too fast	Wait until the ambient temperature is stable.
	(1) Power is off. (2) Improper battery installation. (3)The battery is exhausted. (4)Display remains blank.	(1)Press On/Scam button again. (2)Check the battery polarity. (3)Replace with a new battery. (4)Contact the retailer or service center.

4-REPLACING THE BATTERY

- Open and release battery cover following indicator on the surface of battery cover. Before changing the battery be sure the system is already power off.
 - Remove the battery and replace with 2 new one, type AAA, Make sure align properly as indicated inside the battery cover .
 - Slide the battery cover back in until it snaps in place.
 - Do not dispose of used batteries in household waste. Take them to special local collection sites.
 - In case, if system is latched up after changing battery. You may not follow up the process of rule one. Just take off battery, waiting 30 sec, then load battery again.
- The typical service life of the new and unused batteries is 2000 measurements for the operation time is 18s.

5-CLEANING, CARE AND STORAGE

The lens is very delicate.

It is very important to protect the lens from dirt and damage.

Use a clean, soft cloth to clean the surface of the device and LCD. Do not use solvents or immerse the device into water or other liquids.

Always keep the thermometer a within the storage temperature and humidity range as specified.

It is recommended to store the thermometer in a dry location free from dust.

Always keep the thermometer within the storage temperature range (- 20 °C to 55 °C or - 4 °F to 131 °F) and humidity range ($\leq 93\%$ non-condensing).

It is recommended to store the thermometer in a dry location free from dust. Do not expose the thermometer to direct sunlight, high temperature/ humidity or any extreme environment, otherwise the function will be reduced.

When the ambient temperature of the thermometer changes too much, such as moving the thermometer from one place of lower temperature to another place of higher temperature, allow the thermometer to remain in a room for 30 minutes where the temperature is between 15 °C to 35 °C.

7-WARRANTY

Our company warrants Non Contact Infrared Body Thermometer at the time of its original purchase and for the subsequent time period of **one year**.

The warranty does not cover the followings:

- The device series number label is torn off or cannot be recognized.
- Damage to the device resulting from misconnection with other devices.
- Damage to the device resulting from accidents.
- Changes performed by users without the prior written authorization of the company.
- Batteries and packaging are not covered under warranty

- Do not use a mobile phone or other devices that emit electromagnetic fields, near the unit. This may result in incorrect operation of the unit.

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