

## Catalogue

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### 1.Application

Display body temperature by measuring the thermal radiation on the forehead.

### 2.Structure:

It is composed of infrared sensor component, circuit board component, LCD display component and shell component. Note: without protective cover.

### 3. Cautions, taboos and warnings

#### Cautions

- 1.Please read this instruction carefully before use.
- 2.The operating temperature of this product is 10℃ to 40℃ and the optimal operating temperature is 25℃.
- 3.Please do not use this product under environment temperature above 40℃ or under 0℃.
- 4.To avoid electrical shock, please keep this product away from electrically charged objects.
- 5.This product may not be used when the relative humidity is above 80%.
- 6.Keep this product away from electromagnetic range (such as wireless, cellphone)
- 7.Avoid extended sun exposure, keep away from stove and no access to water.
- 8.Protect the product from collision or dropping, do not use it if damaged.
- 9.The accuracy of the measurement data might be affected by the objects on the tested surface like hair, sweat, hat or scarf.
- 10.Assure the measurement distance within 5cm.
- 11.If the indoor temperature changes quite a lot, you have to keep the product within the room for 15 to 20 minutes before use. Then you can get accurate and reliable data.
- 12.Measuring behind the earlobe is adoptable when the forehead temperature cannot be normally reflected because of sweating or other reasons.
- 13.Wipe the surface of the meter with alcohol for clean if needed.
- 14.If any problem, do not repair it yourself. Please contact the distributor for help.

#### Contraindication

There is no standard for body temperature, please consult with your doctor to check for a fever.

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#### Warnings

- Remove the hair and sweat from the tested surface before measurement.
- Using this product is not a replacement of doctor's diagnosis.
- If any problem, do not repair it yourself. Please contact the distributor for help.
- The protective glass outside of the LCD is fragile and with great importance, please use with care.
- Do not charge the non-chargeable batteries, neither throw it in the fire
- Avoid extended sun exposure and no access to water.

#### 4. Technical parameters

Display resolution	0.1°C	
Precision	Temperature mode	32°C~42.5°C
Measurement range	32°C~34.9°C	±0.3°C
	35°C~42°C	±0.2°C
	42°C~42.5°C	±0.3°C
Measuring distance	1cm~5cm	
Environment temperature	10°C~40°C	
Environment humidity	≅85%	
Power	DC9V battery	
Auto off	10S	
Size	100mmx46mmx160mm	

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#### 5. Advises before use

Infrared thermometer has higher requirement on the surrounding temperature, proper usage is the key to accurate measurement.

(1) This product is a professional infrared thermometer to measure body temperature. The measured results vary from different human skins.

(2) If the indoor temperature changes quite a lot, you have to keep the product within the room for 20 minutes before use.

(3) If the temperature where the person comes from varies a lot from the measured temperature, hold on in the measured environment for at least 5 minutes before measurement.

(4) Surrounding temperature of the measured person should be stable. Strong air flow positions such as outlet of the fan and air condition will not be acceptable.

(5) Do not use this product outdoors or in areas with strong sunlight.

(6) During measurement, do not hold the front end of the measuring instrument.

(7) The measuring area should not be blocked by hair. Remove sweat with a dry towel before measurement to insure accurate result.

(8) Prevent the fever patient be measured after applying cold compress on the tested surface, sweating and taking other cooling measures, under which condition the measurement result will be lower.

(9) Comparison of different temperature measurement methods

Different results you can get by different measurement methods, specifically as below:

Measuring part	Normal temperature
Anus temperature	36.6°C~38°C
Oral temperature	35.5°C~37.5°C
Axillary temperature	34.7°C~37.3°C
Cochlear temperature	35.8°C~38°C
Forehead temperature	35.8°C~37.8°C

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## 6. Rapid use of the product

### 6.1 Battery installation

6.2 First time use of this product you have to get it with battery installed and then start the temperature measurement.

6.3 The front of the thermometer is aligned to the tested surface (distance from 1 to 5 cm) and make sure there is no hair, sweat, makeup or hat covering. Then press the measuring button to start the measurement.

6.4 When ambient temperature changes affect tested surface temperature or tested surface is sweating, please measure behind the earlobe. Meanwhile, make sure there is no hair, sweat, makeup or hat covering.

Attention: it's normal that measured data varies from different skin color or thickness, different part of the body and when the ambient temperature changes greatly.

### 7. Battery replacement

The instrument uses 9V battery, which can be used more than 4000 times continuously under normal circumstances. When LO appears on the screen and the temperature cannot be measured, it will automatically shut down after 3 seconds, indicating that the battery power is insufficient, and the battery needs to be replaced as soon as possible.

(1) Open the battery cover and replace the battery and make sure the positive and negative poles are placed correctly.

(2) Use of disposable batteries instead of chargeable batteries and alkaline batteries are suggested.

(3) If no need to use the product for a long time, it is suggested to take out the battery to avoid product damaged by the battery leakage even the static current is very low when the instrument is not working.

Matters need attention :

1. When open the battery cover, pay special attention to the polarity of the battery. Misplaced batteries can cause product damage.

2. If no need to use the product for a long, please take out the battery to avoid the thermometer damages by the battery leakage.

3. No use of battery with leakage or mildew.

4. Keep the battery away from the source of the fire or plunge into fire to get rid of battery explosion.

5. Do not store the battery in high temperature or high humidity.

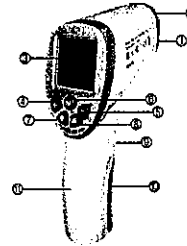
6. Do not put the battery together in the same bag with metals like coins and keys to avoid battery short circuit.

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## 8. Operating instructions

### 8.1. Description of thermometer position

- |                        |                          |
|------------------------|--------------------------|
| (1) Infrared sensor    | (7) Background light     |
| (2) Measuring port     | (8) Buzzer               |
| (3) LCD viewing screen | (9) Power/Thermometry    |
| (4) "+"key             | (10) Battery compartment |
| (5) "-"key             | (11) Hand shake          |
| (6) "M"key             |                          |



### 8.2 Operating steps

(1) When the thermometer is in the measuring mode, you can press and hold the power button to make measurements constantly. If no need to use it for a long time, just press the power button and release.

(2) The count value is cycled from 1 to 20. The counter will increase by 1 for each valid measurement and return 1 after 20. If the measurement result is "LO" or "Hi", it is called invalid measurement. The measurement result does not enter the memory and the counter does not increase.

(3) Measuring data of each measurement will be automatically memorized.

Up to 20 groups of historical data can be memorized. Press "M" start to check these data, then press "+" or "-" (press "-" thermometer will display the last time measured temperature, press "+" it will display the fastest measured temperature). These data can be cycled by press once again the buttons of "+" and "-".

(4) Function Operation:

1. Fahrenheit Degrees/Celsius Degrees temperature display switch :

Operation: Press M button once, the device switch between Fahrenheit Degrees & Celsius Degrees ; Long press M button , switch between the subject & body temperature testing statement

2. Memorized temperature groups checking, the device can memorize maximum 20 groups temperature:

Operation: Press +/- button, device shows the memorized temperature groups.

(The Fahrenheit Degrees and Celsius Degrees alternative only under temperature testing mode, it would not be changed under memorized mode)

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### 9. Button instruction

- (1) Press "M" one time to check the historical data, then short press "+" to check next temperature data and short press "-" to check last time temperature data. Totally 20 groups of historical data can be checked.
- (2) If the measuring result shows "LO" or "HI", it means invalid measurement. The measurement result will not be memorized and the counts will not be raised.
- (3) Press the backlight button to turn the backlight on and off.
- (4) Press the horn button to turn sound on and off.

### 10. Daily maintenance

In the process of using this product, please follow the prompt when you find the following situation.

- (1) Dirty outside: wipe the dirty area with a clean soft cloth or swab with medical alcohol. Medical alcohol also has the function of disinfection. Avoid any damage to the product due to too much water or alcohol flowed into it.
- (2) Dirty inside: As the lens of the internal probe is of vital importance, do not touch or press it with your fingers or other objects. Otherwise the accuracy of the measurement will be affected. Finding the dirty of the lens surface, wipe it by swabs with absolute alcohol above 95% degree. Tip: Do not use 75% degree alcohol (residual water traces will be left), do not use other types of chemical reagent which will cause damage to the lens.
- (3) Storage: Keep it in a dry and dark place without direct sunlight.

### 11. Trouble shooting

Refer to the guidelines below if encountered with issues below. Please call our after-sale service if the problem still cannot be solved.

- (1) The screen displaces temperature value above 42.5 °C
- (2) The screen displaces temperature value below 32 °C
- (3) High measurement temperature: Keep your hands off the front area of the thermometer. Hold the probe area raises the measurement temperature value.
- (4) Screen display "HI"

In temperature mode, if the measurement value is more than 42.5 °C the screen displays "HI". Please check if the measured area has been exposed to an external heat source. If no, call for our after-sale service.

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### (5) Screen display "LO"

In temperature mode, if the measurement value is below 32 °C the screen displays "LO".

Find solutions from table below. If not caused by the reasons below please call for our after-sale service.

Main reasons caused screen display "HI" and "LO"

Reasons	Suggestions
Sweat or hair on the forehead	Make sure no obstacles or sweat on the forehead
Cold air blows on the forehead	Make the air is stable during measurement
Cold compress on the forehead	If cold compressed, wait for 10 minutes to measure again
Measuring distance too far	Optimum test distance is from 5 to 15cm, and make sure the thermometer is not contacted with the skin.

- (6) Screen display "HI"  
In temperature mode, if the measurement value is more than 42.5 °C the screen displays "HI"
- (7) If any accident occurred in the using process, just stop it and consult with doctor.

Notice: This product may not achieve the claimed performance if stored or used it outside the specified range of temperature and humidity.

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