



User's Manual

Product Name: Forehead Thermometer

Model : AT-FT-01

Manufacturer : Hangzhou Ruiwode Electromechanical Industry Co., Ltd.

Address: No. 3, Dadiankou Industrial Zone, Jiande, Hangzhou, Zhejiang Province

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Please read this manual carefully before operation, and keep it for reference

A. Advice before first use

Install the two AAA batteries in correct polarities . otherwise the device might be damaged .

B. Product description

This product is a professional infrared thermometer for measuring the temperature of the human body. It can also be used to measure the temperature of baby bottles, rice cereal, bath water, etc. or the ambient temperature of bathrooms and rooms (using surface temperature mode). It is made with advanced infrared temperature measurement technology, which can quickly measure the target temperature and perform intelligent analysis and processing. The measurement result is displayed within 1 to 3 seconds.

Note:

According to the difference of human skin and the parts of the body to be tested, the measured temperature will be different. This is normal, because the more exposed the body parts, the greater the influence of the ambient temperature.

C. Safety Manual

- Please read this manual carefully before use.
- The appropriate ambient temperature for this product is 16 ° C to 35 ° C, and the optimal temperature is 25 ° C.
- Do not use this product in an environment where the temperature is higher than 40 ° C or lower than 10 ° C.
- Do not place this product near a charged object to avoid electric shock.
- Do not use the product in an environment where the relative humidity is 80% and up.
- Do not place this product too close to the electromagnetic range (such as radio, mobile phone, etc.).
- Do not expose this product to the sun or near fire , and never touch water.
- Do not bump or drop the product, and do not use it if damaged.
- Hair, sweat, hats, or scarves on the forehead can affect the accuracy of the measurement data.
- Please make sure the measurement distance is within 3 ~ 5cm.
- Once the forehead sweats or other reasons cause the forehead temperature can not properly respond to body temperature, measure at the back of the earlobe.
- When cleaning is required, gently wipe the surface of the thermometer with alcohol.
- In the event of a problem with the product, please contact your distributor and do not attempt to repair it yourself.

Product Overview

1.1 Product introduction and classification

This product measures human body temperature by collecting infrared thermal radiation from human forehead . The operation is simple and hygienic, and the measurement is accurate. The user only needs to point the probe at the forehead and press the measurement key to measure the body temperature.

Widely used in schools, customs, hospitals, homes.

This product is a second-class medical device, which belongs to internal power supply equipment, type B application part, and protection is ordinary equipment (IPXO). It cannot be used in the presence of a mixture of easy anesthesia gas and air, oxygen or nitrous oxide. It is a continuous operation device.

This product is Class II A as EU classification .

Scope of application: The body temperature of the measured object is displayed by forehead radiation.

Symbols and Descriptions:



Notice



B type application

1.2 Product technical parameters

Name: Forehead thermometer

Measurement method : Non-touch

Measurement range: Body temperature mode: 32 ° C ~ 42.5.0 ° C (89.6 ~ 108.5 ° F)

Material temperature mode: 0 ~ 60 °C (32 ~ 140 °F)

Measurement time: 1 ~ 3 seconds

Measuring distance : 3-5 CM

Display unit: Celsius (° C) / Fahrenheit (° F)

Error range: ± 0.2 in the range of 35-42 ° C ± 0.3 ° in the range of 35-42 ° C

Display accuracy: ± 0.2 ° C (0.2 ° F)

Memory data: 32 groups of human temperature

Display: with backlight

Power supply: Two AAA batteries

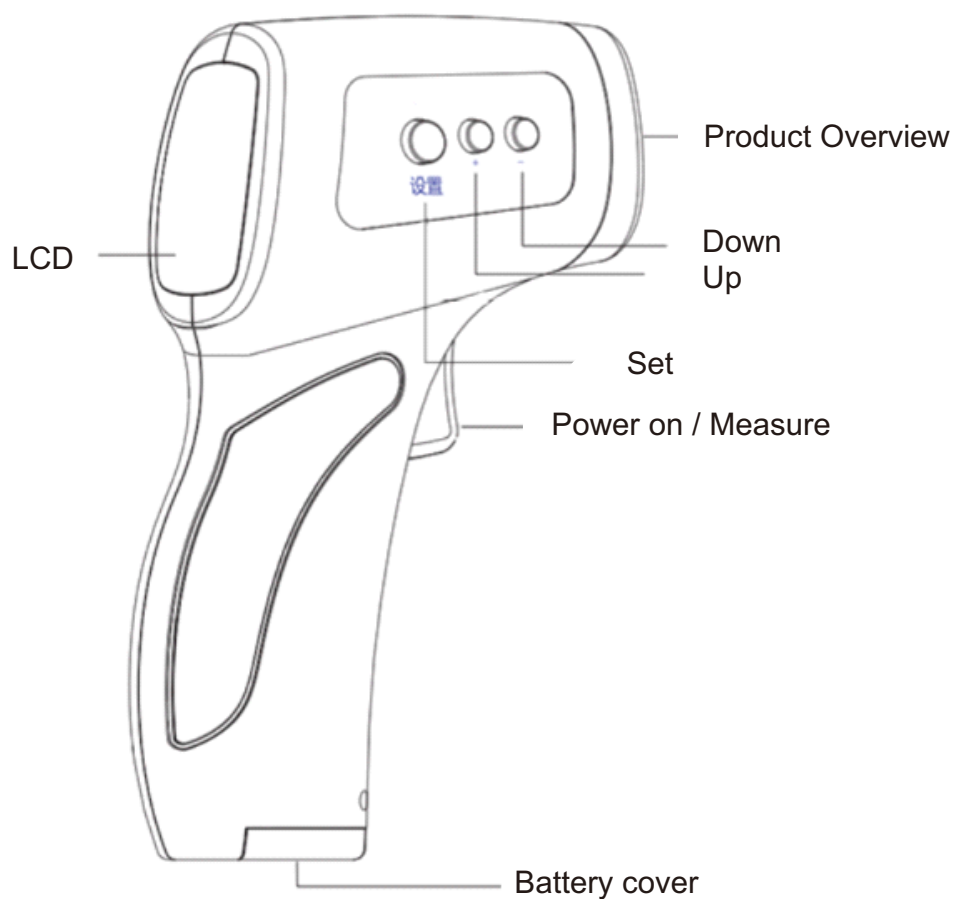
Energy-saving Dormancy : no operation for 15 seconds

Product size: 149 * 77 * 43mm

Product weight: 172g (without battery)

Operating environment : 10-40 ° C (50-104 ° F) , humidity ≤ 85%

Appearance design:



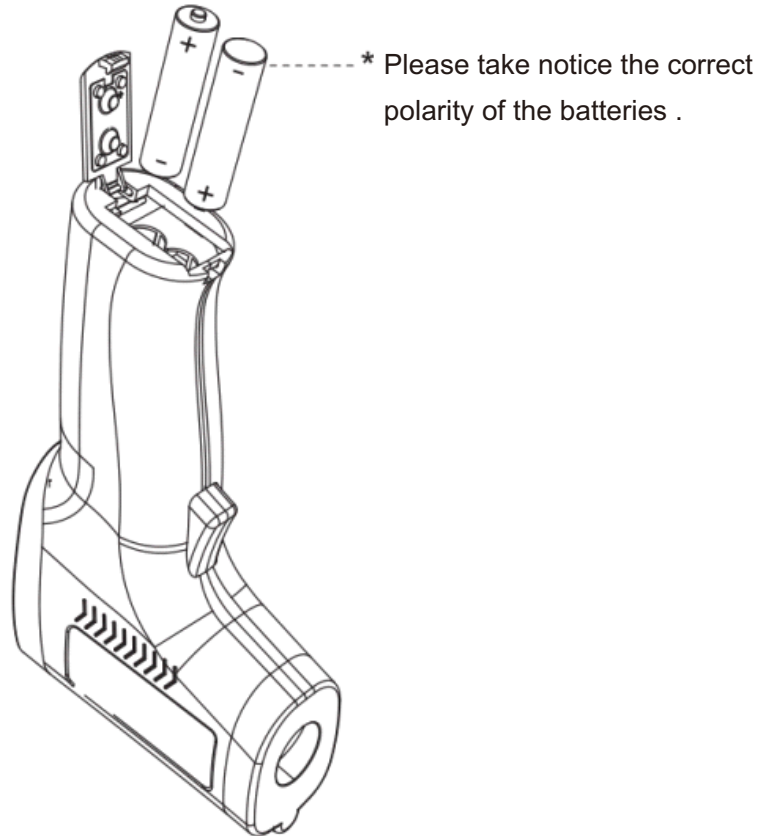
Display introduction



Replacing Batteries

4.1 Installing batteries

Open the battery door, remove the batteries, insert two new AAA batteries, and close the battery door.



- 1) Wait for ten minutes to warm up after inserting batteries.
- 2) The boot time may extend by 1 to 2 seconds for environmental temperature detection if the product is turned on after long time .

Measurement Method

1) Human body temperature measurement

Confirm that the measurement mode at the top of the screen is the body temperature mode (Body)
Align the thermometer probe in the middle of the forehead and keep it vertical, about 3-5 cm away (Figure 9.1). Press the measurement key. After one second will come out drip sound and display the measurement value (Figure 9.2), and the measurement is completed. If the measured value exceeds the temperature alarm point (the default value is 38 ° C), five "Dip ... Drip" alarm sounds. When the environmental temperature changes greatly affect the forehead temperature, please measure after pointing at the back of earlobe (Figure 9.3)

2) Object temperature measurement

Confirm that the measurement mode at the top of the screen is the object mode
Click "Set" to switch to the surface temperature measurement mode, point the thermometer probe at the object, and press the measurement key. The measured temperature will be displayed in about 1 second.

Notes:

1. Before and after use, keep the inner cavity of the sensor and probe clean.
2. Please use the thermometer in a stable temperature environment. When the ambient temperature changes greatly (such as from indoor to outdoor), please leave it for about ten minutes before measuring.
3. Do not start measuring body temperature immediately after measuring the temperature of extremely high or low temperature objects, please leave it for ten minutes .
4. When the measurement object comes from a place with a large difference in the temperature of the measurement environment, it should stay in the test environment for at least five minutes.

Don't try to measure while your forehead is blown, drenched, sweating, applying cosmetics, etc. Do not take body temperature within 30 minutes after exercise, bathing, and meals.

Key operation

This product provides five function settings such as temperature unit, tone switch, temperature alarm point, temperature offset and measurement mode. The measurement mode setting is set by the mode switch key, and other settings are set in the setup menu.

The setting menu comparison table is as follows:

Menu	Function	"-"	"+"	Initial value	Remark
F1	temperature unit	°C °	F	°C	
F2	alarm point	Decrease 0.1	Increase 0.1	38 °	Range 37 -42 °
F3	Temperature deviation	0.1 °C downwards	0.1 °C upwards	0.8 °C	range 0 °C -3 °C
F4	Beep switch	Off	On	On	

Measurement Mode setting

Under the power-on state, the screen displays the current measurement mode (Figure 1-1). Press the "Set" key briefly to switch the measurement mode to body temperature and surface temperature.



Picture 1-1

Temperature unit setting--F1

Press and hold the "Set" key for 2 seconds, the screen displays F1, and the Celsius temperature flashes (Figure 1-2), press "-" to select (Fahrenheit) temperature unit (Figure 1-3), press "+" to select (Celsius) Temperature (Figure 1-4)

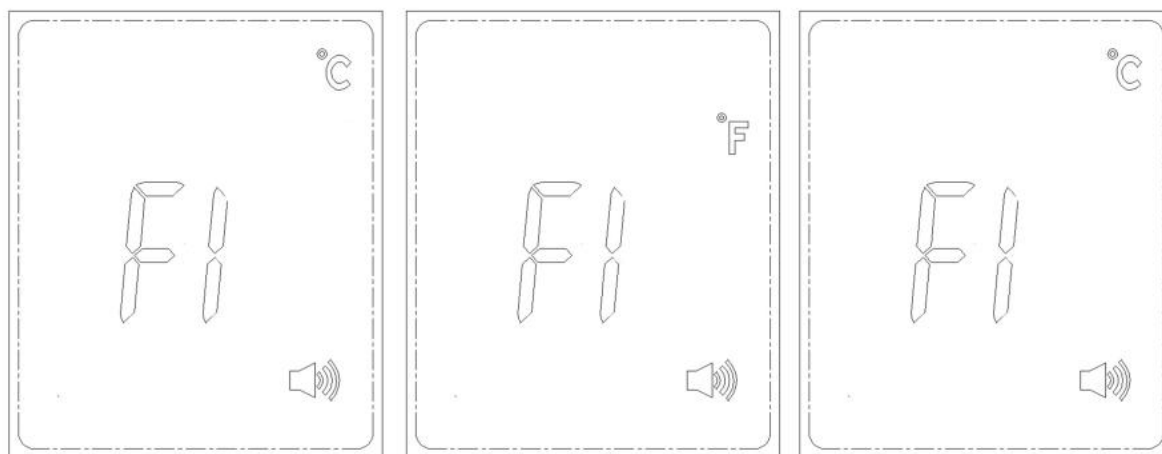


Figure 1-2 Figure 1-3 Figure 1-4

Temperature alarm point setting--F2

Press and hold the "Set" button for 2 seconds, the screen displays F1, press the "Set" button and comes out F2 mark, then press the "+" button to increase the temperature value by 0.1 ° C (0.1 ° F), and press the "-" button to decrease the temperature value 0.1 ° C (0.1 ° F). Note: The initial default alarm value is 38 ° C (100.4 ° F).

Temperature deviation value setting--F3

Press and hold the "Set" button for 2 seconds, the screen displays F1, press the "Set" button twice to come out F3, and then press the "+" button to increase the difference by 0.1 ° C (0.1 ° F), and press the "-" button to decrease the difference by 0.1 ° C (0.1 ° F). Maximum deviation value can be 3 C .

Alarm on/off setting--F4

Press and hold the "Set" button for 2 seconds, the screen displays F1, press the "Set" button 3 times to come out F4, and then press the "+" button to turn on the beep sound (symbol of On appear on the screen) or turn off the beep sound (appears on the screen Off symbol)

After entering the setting menu operation, if you need to modify a certain setting, you can press the menu key continuously to select.

The new settings will be saved after the completion of the sequential setting, and the new settings will not be saved if the setting was interrupted due to power off .

At the setup mode, pressing the measurement key will not work , and the thermometer will not take measurements.

7.1 Product maintenance

1. Please keep the inner cavity of the sensor and probe clean, otherwise it will affect the measurement accuracy.

Cleaning method:

1) Surface cleaning: Wipe the dirt with a clean soft cloth or cotton swab and a little medical alcohol or water.
2) Clean the inner cavity of the sensor and probe: Wipe the inner cavity of the probe or the top of the sensor gently with a clean soft cloth or cotton swab and a little medical alcohol. Do not use the product until the alcohol is fully exerted.

2. Before use, please read this instruction manual carefully, and make sure that the batteries are in correct polarity .

3. It is forbidden to immerse the thermometer in any liquid, and it is forbidden to be placed in an excessively high or low temperature environment for a long time.

4. It is forbidden to collide, drop or keep with sharp objects, and it is forbidden to disassemble by yourself.

5. The thermometer cannot be used in the sun or water.

6. Do not use in strong electromagnetic interference environment.

7. Keep the thermometer away from the children.

8. It is recommended to practice several times to become familiar with the measurement method, and please don't change the initial settings.

9. The measurement results are not a substitute for physician diagnosis.

10. Never try to repair by yourself . Please contact the distributor or manufacturer if there is any failure.

11. Please dispose of the waste and residues at the end of the service life of the product according to local laws and regulations.

7.2 Product maintenance

During the use of this product, you may encounter some problems. Please follow the maintenance instructions to find a solution. If the problem persists, please contact our after-sale service.

1) The LCD displays "HI": it indicates that the measurement range has been exceeded, or the measurement temperature in the body temperature mode exceeds 43 ° C (109.4 ° F), or the measurement temperature in the material temperature mode exceeds 60 ° C (140 ° F).

2) The LCD displays "LO": indicating that it is below the measurement range, or the measurement temperature is lower than 32.0 ° C (89.6 ° F) in the body temperature mode, or the measurement temperature is lower than 0 ° C (32 ° F) in the temperature mode.

3) There are several situations where the messages "HI" and "LO" appear:

Reason for the message "HI" or "LO"

The temperature value is affected by hair and sweat to ensure that there is no obstruction during temperature measurement

Temperature is affected by air flow changes , should ensure that the air remains stable during temperature measurements

The measured temperature value is too close. Please keep the interval of 15 seconds between two consecutive measurements. We recommend one minute interval.

The measuring distance is too far. Make sure that the measuring distance is less than 5 cm.

Walk into the room from low or high temperature outdoors. Please wait for 20 minutes before the subject's temperature adapts to the temperature of measurement environment.

7.3 Common faults and troubleshooting methods

Anomaly Cause Action

The display does not light up during measurement. Low battery . Replace the batteries.

The batteries are not in correct polarity . Please replace batteries in correct polarity.

The display is dimmed or the battery symbol is empty . Replace two new batteries.

Backlight off . Replace two new batteries

7.4 Body temperature common sense

The human body is a very complex biological comprehensive system. Body temperature is an important data of whether human life activities are normal. Usually we measure our health by measuring the temperature of the forehead, cochlea, anus, mouth and armpit will be different, the specific differences refer to the following table:

Measured temperature Normal temperature ° C Normal temperature ° F

Anal 36.6 ~ 38.0 97.8 ~ 100.4

Oral 35.5 ~ 37.5 95.9 ~ 99.5

Underarm 34.7 ~ 37.3 94.4 ~ 99.1

Ear 35.8 ~ 38.0 96.4 ~ 100.4

A person's body temperature changes at different times of the day, and is also affected by other external conditions, such as age, gender, skin color, and thickness. For the normal temperature range of different age groups, please refer to the table below:

Age Normal temperature ° C Normal temperature ° F

0 ~ 2 years 36.4 ~ 38.0 97.5 ~ 100.4

3 to 10 years 36.1 to 37.8 97.0 to 100.0

11 to 65 years 35.9 to 37.6 96.6 to 99.7

> 65 years old 35.8 ~ 37.5 96.4 ~ 99.5

Women's body temperature is different from that of men. Generally, it is about 0.3 °C higher than that of men. Body temperature during ovulation will rise by 0.3 °C -0.5 °C than usual. Therefore, we can use this to know whether women are in ovulation period, which is conducive to fertility or contraception. The usual method is to use the body temperature to measure the basal body temperature of a female individual every day, and then draw a basal body temperature change curve chart. From the figure, you can clearly see the ovulation period.

Warranty card and after-sale service

After-sale service is warranted by the manufacturer . Within 15 days of purchasing the product, if you have any quality problems, you can contact the distributor for free replacement. If there is any quality problem within one year after purchasing this product, repair service will be free. If it exceeds one year, the cost of repair parts will be charged to the consumer.

After-sale warranty card

Customer Name Phone

Purchase date

Product model

Product Serial Number

Shipping address

reflecting on issues

After-sale service instructions

1. This warranty card can be used as a voucher for after-sale service;
2. For after-sale service , please fill in this after-sale warranty card with correct information .
3. Please keep it properly . If you have any questions, please call: 15060901183

Note:

The following conditions are not included in the return and warranty

1. Products that have been artificially modified, damaged, or disassembled.
2. Damage caused by incorrect operation.
3. Irresistible factors (such as geological disasters, wars, etc.)