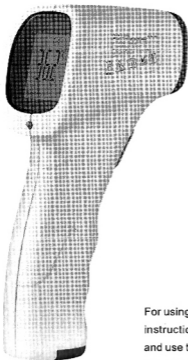


Infrared Forehead Thermometer

Model:FI02



- Imported sensor
- °C/°F temp shift
- Body and Object mode
- Automatic off within 20s

For using this product safely, please read this instructions carefully first. Please purchase and use the thermometer under the guidance of medical personnel.

CE 0197

User's Manual

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General Description

Non-contact Forehead IR Thermometer is specially designed to take the body temperature of a person (or Animal) regardless of room temperature. Depending on various skin types and thickness, there may be temperature difference.

Intended Use

Non-contact Forehead IR thermometer is designed for body surface and forehead temperature measurement for infants and adults without contact to human body.

It can also be used to measure the temperature of baby-bottle or both, or room temperature (by using the surface mode) and animal.

Configuration

Device Cover , Infrared Sensor, Signal receiver processor ,
Button , COB Board , Buzzer, LCD Screen

Fundamental

Based on receiving the infrared from body or object , to measure the temperature.

Features

- Non-contact measurement
 - 3-5cm measurement distance
 - clean and safe
 - Accurate $\leq \pm 0.2^{\circ}\text{C}$ (0.4°F)
- Three color back light
 - Easy read in the dark
 - Easy understand the temperature
- Memory
 - last measurement
- Fever alarm
 - Humanized default
 - Fever alarm when the temperature Over 38°C
- Multi Function
 - Body temperature ,Milk temperature ,water emperature ,
room temperature ,Object surface temperature .
- Imported sensor
- $^{\circ}\text{C}/^{\circ}\text{F}$ temp shift
- Body and Object mode
- Automatic off within 20s

Advice for The First Use

For stable and reliable results, it is essential to check the Non-contact infrared thermometer and change as needed, as follows:

- 1st step: Take the temperature of a person using a conventional thermometer, you will get 37.5°C(99.5°F) for instance
- 2nd step: Take the temperature of the same person using the device keeping the 3– 5 cm (2 to 5.9 in) distance between the thermometer and the forehead(Take care to remove any obstacle which could alter the measurement(hair, perspiration...). If you get 37.5°C(99.5°F), the device is properly set and ready for use.

If you get a lower temperature, such as 36.4°C(97.5°F), your difference is 1.1°C(2.2°F). You should adjust the temperature on the device and add the difference, i.e.1.1°C(2.2°F).

To do it, press the MODE button for 2 seconds, the screen displays F1, press MODE button again until you get F3,Press UP button in order to add the difference(in our example, 1.1°C(2.2°F).

- 3rd step: To check, take the temperature again using the product.

Range for reference

Colors Backlight

In body mode, the device is able to judge whether a fever or not by different color of backlight:

32.0 to 37.4°C(86.0 to 99.3°F)Green

37.5 to 37.9°C(99.5 to 100.2°F)Orange

38.0 to 42.9°C(100.4 to 109.2°F)Red

Normal Temperatures According to Measurement Method

Measurement Method	Normal Temp. °C	Normal Temp. °F
Rectal	36.6 to 38.0	97.8 to 100.4
Oral	35.5 to 37.5	95.9 to 99.5
Axillary	34.7 to 37.3	94.4 to 99.1
Ear	35.8 to 38.0	96.4 to 100.4

The temperature of the human body varies throughout the day. It can also be influenced by numerous external factors: age, sex, type and thickness of skin...

Normal Temperatures According to Age

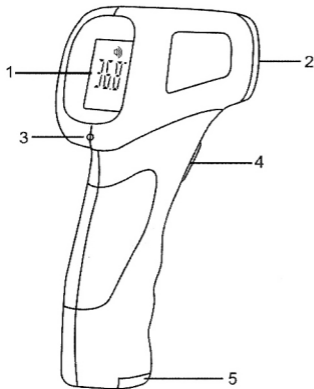
Age	Temp. °C	Temp. °F
0-2 Years	36.4 to 38.0	97.5 to 100.4
3-10 Years	36.1 to 37.8	97.0 to 100.0
11-65 Years	35.9 to 37.6	96.6 to 99.7
>65 Years	35.8 to 37.5	96.4 to 99.5

Technical Specifications






Model	FI02
Measuring Distance	3-5cm
Display Resolution	0.1°C (0.1°F)
Temperature Model	°C/°F
Working condition	16°C ~ 35°C (60.8°F ~ 104°F) Rh ≤ 85%
Storage condition	-20°C ~ 55°C (-4°F ~ 131°F) RH ≤ 93%
Power	DC 3.0V (2X"AAA" batteries)
Size	141(L)×86(W)×39(D) MM
Weight	82g
Measurement Range	Body 32.0 to 42.9°C (89.6 to 109.3°F)
	Surface 0 to 100°C (32 to 212.0°F)
	Animal 32.0 to 45.0°C (89.6 to 112.9°F)
Precision	Human ±0.2°C (0.4°F) 36.0 to 39.0°C (96.8 to 102.2°F)
	±0.3°C (0.5°F) 32.0 to 35.9°C (89.6 to 96.2°F)
	±0.3°C (0.5°F) 39.0 to 42.9°C (102.2 to 109.2°F)
	Surface ±1.0°C (1.8°F) 0 to 100°C (32 to 212.0°F)
	Animal ±0.4°C (0.7°F) 32.0 to 45.0°C (89.6 to 112.9°F)
Backlight	Body mode 32.0 to 37.4°C (86.0 to 99.3°F) Green 37.5 to 37.9°C (99.5 to 100.2°F) Orange 38.0 to 42.9°C (100.4 to 109.2°F) Red Surface mode and Animal mode always keep Green color
Automatic shut off	In 20 seconds
Service life	2 years

Configuration and Icon

- 1: LCD Screen
- 2: Infrared sensor
- 3: Body mode / Object mode shift
- 4: Measurement key
- 5: Battery cover

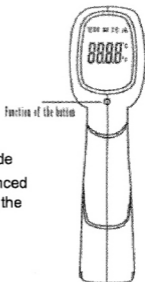


LCD Icon

Functional definition	Icon	Description	
Battery Power		Always Show	Low power, need change the battery
		Twinkle	Low power, need change the battery
		Disappear	Normal, no need change battery
Measurement mode	Body temp	Body mode	
	Object temp	Object mode	
Temperature mode	°C	Celsius degree	
	°F	Fahrenheit degree	
Temperature value		The value of temperature	
Memory		Measurement memory	
Sound		Sound open	
		Sound off	

Afunction of the button

- 1.Short press shift between Object mode and Body mode
- 2.Long press enter the advanced settings (use together with the the measurement key)



Instructions

Object Mode

Set the device into Object mode

Press the measurement key to open the device, Normally will show all the Icon (10-8).

Then the device will check the environmental temperature ,and display it on the screen(10-9)

Make sure the device under Object mode

Keep 3-5cm to the object , then press the measurement key, Then the measurement is completed ,and will show the result on the screen.(10-10)

After measurement the device will Auto off within 20second if there is no operate(10-11)



fig10-8



fig10-9



fig10-10



fig10-11

Advice

- 1、 Do not cover the sensor , for keeping the sensor clean and sensitive .
- 2、 For high accurate , when the environmental temperature have big change , please waiting 30mins before testing .
- 3、 The device only take the object surface temperature ,not the temperature inside the object
- 4、 Different Object will have different result even they have same temperature (we sue pure water as standard)

Body Mode

Set the device into Body mode

Press the measurement key to open the device,Normally will show all the Icon (10-2).

Then the device will check the environmental temperature ,and display it on the screen(10-3)

Make sure the device under Body mode

Keep 3-5cm to the forehead(10-4), then press the measurement key,

Then the measurement is completed ,and will show the result on the screen.(10-5)。

After measurement the device will Auto off within 20second if there is no operate (10-6)



fig10-2



fig10-3



fig10-5



fig10-6

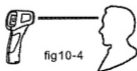


fig10-4

Advice

- 1、 Do not cover the sensor , for keeping the sensor clean and sensitive .
- 2、 For high accurate , when the environmental temperature have big change , please waiting 30mins before testing .
- 3、 When have sweat or dirt on the forehead will influence the accurate .

Advanced settings

Icon	Function	Measurement Key	Default value	Mark
F1	Temperature value adjust	0.1°C	0.0°C	Only for Body Mode
F2	Fever Alarm	0.1°C	38.0°C	
F3	Temp Mode	°C/°F		°C/°F
F4	Voice ON/OFF	OFF	ON	
F5	Restore factory settings			

Battery

When the screen show the low power icon , Please change the battery , Otherwise will influence the accurate :

Open the battery Cover, take out the old battery and replace it with 2pcs of new AAA battery , and take care of Positive and negative pole .

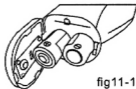


fig11-1

Advice

Take out the battery when storage (without use for a long time). Do not throw the battery into fire.

Follow the right way to arrange the old battery (According to the local regulation)

Questions and answers

Trouble	Reason	Solution
No response	Batteries used up?	Replace new batteries
	Batteries in wrong polarity?	Adjust batteries to proper polarity
Lo, Hi	Exceed measurement range Body mode: <32.0 °C display Lo >42.9°C display Hi Object mode: <0°C display Lo >100°C display Hi Animal mode: <32.0°C display Lo >45.0°C display Hi	1 Make sure the probe is clean and there is no obstruction prior to taking a temperature 2 Make sure there is no air flux as this could interfere with the infrared system. 3 Make sure the measuring distance is not too far
Err	Ambient temperature too low or too high	Allow the device to remain in a room for 20 minutes where the temperature is range from 10 to 40°C
	The batteries are running low	Replace 2 new AAA Battery

Advice

- Read the Instruction before use.
- The best measurement environmental is 25°C (16°C -35°C)
- Do not use the device under 0°C or over 40°C
- Do not keep the device near charged object
- Do not use the device in humidity over 85%
- Do not keep the device in Electromagnetic palce
- Do not keep the device under sunlight or put into water
- The device is Precision instrument , do not open or fall down on the ground
- The hair ,Persperation,hat,scarf may influence the measurement accurate, make sure the measurement distance within 5cm
- For high accurate ,if the Environmental temperature have big change please keep the device in the new palce for more than 30mins before use
- when the forehead can not get the right temperature , can measure the backside of ear
- do not measure after eat , sports ,shower within 30mins
- stop 10s between each measurement
- do not throw the device into fire
- when the device have problem please contact your seller
- keep the device in the palce where children can not get

Care

- The infrared sensor is the most delicate part of the device,
- It has to be clean and intact to ensure accurate readings.
- Clean the device gently with a cotton swab or soft cloth moistened with 70% alcohol
- Use a soft, dry cloth to clean the thermometer display and exterior.
- Do not use abrasive cleaners, Never submerge the thermometer in water or any other liquid.
- Store the device in a dry environment, and keep it away from dust and direct sunlight.
- Always keep the thermometer out of reach of children.

Standard

This appliance conforms to the following standards:

- ASTM E1965-1998
- EN980: Graphical symbols for use in the labelling of medical devices
- EN1041:Information supplied by the manufacturer with medical devices
- EN60601-1 :Medical electrical equipment part 1:General requirements for safety(IEC60601-1:1998)
- EN60601-1-2:Medical electrical equipment part 1-2: General requirements for safety collateral standard electromagnetic compatibility requirements and test(IEC60601-1-2:2001)

EMC statement

This device has been tested and homologated in accordance with EN60601-1-2 for EMC, This does not guarantee in any way that the device will not be affected by electromagnetic interference. Avoid using the device in high electromagnetic environment.

The medical electrical equipment needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the accompanying documents.

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