

equinox

Non-Contact Infrared Thermometer

EQ-IF-02



User Manual

- Thanks for selecting our Non-Contact Infrared Thermometer EQ-IF-02
- Please do read the user manual carefully and thoroughly. Keep it safe for future reference.

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■ General Description

Thank you so much for selecting Equinox Non-Contact Infrared Thermometer EQ-IF-02. Thermometer is an essential device used in every household. It is a device which is used to measure temperature without actually touching the forehead. This technology minimizes the risks of infections and ensures you get an accurate temperature reading every time you use it. It is also ideal for measuring the temperature of any surface, feeding bottles or room.

■ Features

1. LCD display with 3 colors backlight for easy fever differentiation
2. Accurate Readings
3. Quick results in 1 second
4. Switching mode C° - F°
5. Low Battery Indicator
6. Fever Alarm
7. Body, room and surface temperature mode
8. Auto power off within 30 sec
9. 32 result memory

■ Safety Precautions

- Follow the maintenance advice stipulated in this instruction manual.
- This device may be used for professional purposes or for personal home use.
- This device must only be used for the purposes described in this instruction manual.
- This device must only be used in an ambient temperature range of between 10°C(50°F) and 40 °C(104°F).
- This device must always be kept in a clean, dry area.
- Do not expose this thermometer to electric shocks.
- Do not expose this thermometer to extreme temperature conditions of >55°C (131°F) or ≤-20°C(-4°F).
- Do not use this device in relative humidity higher than 85%.
- Do not touch the glass of the infrared sensor with your fingers.
- Clean the glass with a cotton bud lightly moistened with 95° alcohol.
- Do not expose the thermometer to sunlight or to water.
- Never drop the device.
- If a problem occur with your device, please contact Equinox Customer Care. Do not attempt to repair this device yourself.

It is advised to read this instruction manual and the safety precautions carefully before use. The Non-Contact Infrared Thermometer EQ-IF-02 is pre-set at the factory. It is not necessary to calibrate the device when starting it up. However, in order to obtain reliable results, you are advised to allow the thermometer to acclimate to ambient temperature for 15 to 20 minutes before using each time there is a significant change in environmental temperature.

It is also important to allow a 3-5 seconds interval between measurements.

■ How Non-Contact Infrared Thermometer Works

All objects, solid, liquid or gas, emit energy by radiation. The intensity of this energy depends on the temperature of the object. The Non-Contact Infrared Thermometer EQ-IF-02 is therefore able to measure the temperature of a person by the energy the person emits. Therefore, as soon as the operator holds the thermometer near the body and activates the radiation sensor, the measurement is taken instantly by detection of the infrared heat generated by the arterial blood flow. Body heat can therefore be measured without any interference from the heat of the surrounding environment.

Use The Non-Contact Infrared Thermometer EQ-IF-02:

When you have reason to believe you are sick.

- When you are recovering from surgery, illness or exhaustion.
- For monitoring body temperatures.
- When exercising, hiking, or doing strenuous physical activity.
- When traveling or when you are under abnormal stress.

■ Normal Temperature Range According To Age

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

■ How to Take Temperature

Aim at the FOREHEAD, over the right temporal region, from a distance of 3cm - 5cm(1.2 in - 2 in), press the scan button to instantly display temperature.

The reliability of the measurement cannot be guaranteed if the temperature is measured over another part of the body (e.g. arm, torso...)

■ Instructions

1. Install batteries
2. For the first use or when inserting new batteries, wait from 10-15 minutes for the warm-up of the unit. This will allow the unit to become acclimated to the temperature of the room.
3. Press "ON/SCAN" button to turn on the unit aim towards the desired location, keeping the unit at a distance of 3-5cm (1.2-2 in) from forehead, and press the "ON/SCAN" button. Results will be displayed in 1 second.
4. Before taking the temperature, make sure to remove hair and perspiration from the forehead. You can also take the temperature behind the ear lobe.

■ Setting and Function of Menu

1. Switch on the device

Press the "ON/SCAN", the screen panel in full display, it will enter the standby model with the sign "—°C" or "—°F". When then press the "ON/SCAN" button will get the measuring result in 1 second. But if there is no key to press, it will turn off in 30 seconds automatically.

2. Choosing the temperature unit

In the switch on state, Press the "°C/°F" button to transfer between Celsius and Fahrenheit.

3. Mode choice

This specially designed to take the body temperature of a human being. For the use the Body mode: 32°C-42.9°C (89.6°F-109.2°F).

You can use this to measure the temperature of an area or an object, a food, a liquid. For this, use the Surface temp mode. Measurement range for Surface temp mode: 0°C-60° (32°F-104°F).

You can use this to measure the temperature of the room. For this, use the Room mode. Measurement range for room temp mode: 0°C-40° (32°F-104°F).

In the switch on state:

- a. Press "MODE" button, and the screen will display: Body...°C
- b. Press again "MODE" button and the screen will display Room...°C
- c. Press again "MODE" button and the screen will display: Surface Temp...°C.

Note: This has default setting as Body mode.

4. Instructions for recalibration Set (To adjust variation of it)

When do you use it?

When there is the difference between EQ-IF-02 and mercury thermometer, and you believe mercury thermometer from its temperature but it is not convenient to use. You can use recalibration function to adjust this to make it the same test result with mercury thermometer after recalibration.

Besides, when you use this for the people with different skin color (For example: the yellow race, the white race, black people and so on) you can use recalibration too.

How to use it?

In the switch on state, Press the "MODE" and "°C / °F" buttons at the same time for 3 seconds.

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How to use it?

In the switch on state, Press the "MODE" and "°C / °F" buttons at the same time for 3 seconds.

The screen will then display: "F4"

Press "°C / °F" to increase 0.1°C,

Press "Mode" to reduce 0.1°F,

Press "ON/SCAN" button to save the setting.

In the cases of seasonal or environmental changes a verification and adjustment should be carried out.

Note: If the Unit is Fahrenheit, the adjustment range is from 5.4°F to -5.4°F. If the Unit is Celsius, the adjustment range is from 3.0°C to -3.0°C.

5. Buzzer ON/OFF

In the switch on state, Press the "MODE" and "°C/°F" buttons at the same time for 3 seconds, the screen will display "F4", press the "ON/SCAN" button once again, the screen will display "F5", press "°C/°F" button can open the voice, the screen shows "ON". Press "MODE" button can close the voice, the screen shows "OFF".

6. Data memory

In the switch on state, press "°C/°F" button and hold for 4 seconds, which will display the last temperature, and allows for a view of the last 32 measurements taken.

7. Delete the memory

In the switch on state, press "MODE" button and hold for 4 seconds, will delete all the memory data. Then press "MODE" button again will display "CLr".

■ High Temperature Alarm

The default alarm is set at 38°C (100.4°F) in Body mode.

■ Battery Low Voltage Detection

If the battery voltage is not more than 2.7V, the Non-Contact Infrared Thermometer EQ-IF-02 will display the flashed symbol "🔋" to remind you to replace the batteries.

■ Changing the Batteries

This works with 2 AAA alkaline batteries for 20,000 times use. When the LCD screen displays "b", the battery should be replaced. Open the lid and change the battery, taking great care with the correct positioning. A mistake with this could cause damage to the unit and compromise the guarantee of your Non-Contact Infrared Thermometer.

■ Technical Specifications

Range of Measurement	Human Body - 32°C - 42.9°C (89.6°F - 109.42°F)
	Object - 0°C - 60°C (0°F - 140°F)
	Room Temperature - 0°C - 40°C (0°F - 104°F)
Accuracy Calibration	± 0.3°C (32.54°F)
Measuring distance	3-5 cm
Consumption	≤ 150mW
Operation Environment	10°C - 40°C (50°F - 104°F)
Relative humidity	≤ 85%
Dimensions (Box)	20 cm X 8,3 cm X 6 cm (L x W x H)
Dimensions (Product)	17 cm x 4.8 cm x 4 cm (L x W x H)
Power Supply	2 x 1.5V AAA size alkaline batteries
Green color backlight	≤37.3°C(99.1°F)- normal temperature
Orange color backlight	37.4°C - 37.9°C (99.3°F~100.2°F)-low fever
Red color backlight	≥38°C(100.4°F) - high fever
Weight (Product)	90 gm (with batteries)
Weight (Box)	160 gm (with batteries)
Warranty	18 months

NOTE

The Non-Contact Infrared Thermometer EQ-IF-02 can take temperature readings below 32°C or above 42.9°C (89.6°F to 109.2°F) but precision is not guaranteed outside of this range.

■ Maintenance of the Product

1. The infrared sensor is the most important and fragile part of the thermometer. Take care when using, storing or cleaning.
2. Clean infrared sensor with cotton fabric dampened with a 95% alcohol solution.
3. Do not throw battery in fire, please dispose of battery properly.
4. Remove the batteries when thermometer is not used for an extended period of time.
5. Do not expose the thermometer to water or excessive sunlight.
6. An impact may damage the product.

■ Guidelines

This device complies with the ASTM E 1965-98 and the European Standard EN60601-1-2 and is subject to particular precautions with regards to electromagnetic compatibility.

■ Troubleshooting

If you have problems while using this device, please refer to this user manual to help resolve the problem. If the problem persists, please contact our customer service.

THE SCREEN DISPLAYS TEMPERATURE LOWER THAN 32°C (89.6°F):

To take the surface temperature, press the "ON/SCAN" button and set to the reading called "Body". If the device is in Surface Temp Mode, the 32°C (89.6°F) temperature displayed is showing the external temperature of your body, rather than the internal.

THE SCREEN DISPLAYS THE MESSAGE HI

When using the Non-Contact Infrared Thermometer Model EQ-IF-02 the message "HI" can show on the screen. In this case, the temperature is above the measurement range selected, either above 42.9°C (109.2°F) in Body Mode.

THE SCREEN DISPLAYS THE MESSAGE LO

When using the Non-Contact Infrared Thermometer Model EQ-IF-02, the message "LO" can show on the screen. In this case, the temperature analyzed is either under the measuring range selected, either less than 32°C (89.6°F) in Body Mode.

This message displays for various reasons. Please find below a list of the main issues:

Reasons for LO message display	Advice
Temperature reading hampered by hair or perspiration.	Make sure there is no obstruction or dampness prior to taking temperature.
Temperature hampered by an air draft or dramatic change in ambient temperature.	Make sure there is no air blowing in the area of use; this could affect the infrared reading.
Temperature readings are too close together, and the thermometer did not have time to reboot.	Pause for 3-5 seconds minimum between readings; a 15 seconds pause is recommended.
The measuring distance is too far.	Take measurements at the recommended distance (Approx. 3 - 5 cm; 1.2 - 2.0 inch).

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