

THM010-HT001

Thermometer Non-Contact Infrared Human User's Manual



MEDIAID INC.

17517 Fabrica Way Suite H
Cerritos, CA 90703 USA
(Tel) 714-367-2848 (Fax) 714-367-2852
Email: info@mediaidinc.com
Website: www.mediaidinc.com

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THE MANUFACTURER RESERVES THE RIGHT TO ALTER THE SPECIFICATIONS OF THE PRODUCT WITHOUT PRIOR NOTIFICATION

1. Features

1. The Non-Contact Infrared Thermometer TH010-HT001 is special design to take the body temperature of a person.
2. Quick and reliable results as it use the advantage infrared detection system.
3. Audible alarm if temperature is exceeded.
4. The unit's memory can hold the last 32 temperature readings.
5. Three color backlit LCD digital screen.
6. Data can be displayed in either Celsius or Fahrenheit.
7. Auto power-off 5 seconds (energy saver).
8. The TH010-HT001 is small, convenient, and easy to use.

2. Safety Precautions

- Following the maintenance advice stipulated in this instruction.
- For professional or personal use.
- Must only be used for the purposes described in this instruction.
- Optimal performance occurs between 15°C-32°C(59°F-89.6°F); do not expose to extreme temperature conditions.
- Keep in a clean, dry area.
- Do not expose this device to electric shock.
- Functionality decreases when relative humidity is higher than 85%.
- Protective glass over the lens is fragile; handle with care.
- Do not touch the glass of the infrared lens with bare fingers.
- Clean the glass with a cotton swab, lightly moistened with rubbing alcohol.
- Do not expose thermometer to sunlight or to water.
- Take care not to drop the device.
- Should a problem occur with your device, please contact your retailer; do not attempt to repair this device yourself.

It is essential to use the Non-Contact Infrared Thermometer TH010-HT001. You are therefore advised to read this instruction manual and the safety precautions carefully before use. The Non-Contact Infrared Thermometer TH010-HT001 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 one-minute interval between measurements.

3. How The Non-Contact Infrared Thermometer TH010-HT001 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 TH010-HT001 is therefore able to measure the temperature of your body by your body emits. This measurement can be taken thanks to an external temperature probe on the device that analyses and registers ambient temperature.

As an operator holds the thermometer aim at the FOREHEAD activates the radiation sensor, temperature measurement is taken instantly by detection of the infrared heat generated by 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 TH010-HT001 :

- 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 and /or when you are under abnormal stress.

4. Normal Temperatures 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

Mediaid does not take responsibility for the results or actions of non-medical personnel using the NON-CONTACT INFRARED THERMOMETER TH010-HT001.

5. How To Take A Temperature

Aim at the FOREHEAD, over the right temporal region, from a distance of 3cm - 5cm, 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...)

6. Basic Instrument



7. Instructions

1. Install battery
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. Aim towards the desired location, keeping the unit at a distance of 3 -5cm (1.2-2 in) from forehead, and press the Scan Button. Results will be displayed and/or spoken in one 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.

8. Configuration And Function Of Menu

1. Setting the mode
Press mode button, and the screen will display: Body... °C
Press again and the screen will display: Surface Temp... °C
Press again and the screen will display: Room... °C

Note: The TH010-HT001 default is set to BODY mode

2. Press the " °C/°F " button to transfer between Celsius and Fahrenheit
3. Press "MEM" button, which will then display the last temperature, and allows for a view of the last 32 measurements taken.
4. The "Language" button will display a choice of three languages, and an "off" setting, which will be silence the talking feature of the unit.

Important: The area temperature differs from the internal body temperature. To obtain the internal temperature always use the BODY mode.

Please make sure to select the BODY mode for an internal temperature reading and the SURFACE TEMP mode for an external area reading.

5. Recalibration of device via the F4 MENU

The F4 function will recalibrate the unit. The unit is set for reading from the forehead. Recalibration is necessary if you desire to take the temperature reading from one of the other reading areas (perennial area, or upper gum). You must take your temperature using a conventional thermometer and if you see a difference in the reading, you must recalibrate the unit.

Instructions for recalibration:

Press the "MODE" and "°C/°F" buttons at the same time for 3 seconds. The screen will then display: "F4"

Press "Mode" to increase 0.1°C (°F), press "°C/°F" to reduce 0.1°C (°F).

Press "MEM" button to save the setting.

6. Changeable background light

When at "Surface" mode, background light is always green. When at "Room" mode, background light is always green. When at "Body" mode, under than 37.4°C (99.3°F) the background light is green. Between 37.4°C(99.3°F) to 37.9°C(100.2°F) it will be Orange, means the patient is to be fairly vigilant. Upper than 37.9°C(100.2°F), it means that patient is to be fever.

9. High Temperature Alarm

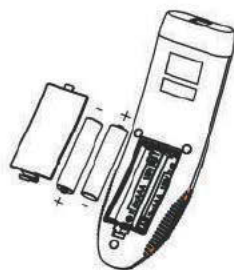
The factory default alarm is set at 38°C(100.4°F)

10. Battery Low Voltage Detection

If the battery voltage is less than 2.7V, the Non-Contact Infrared Thermometer TH010-HT001 will beep four Times and display the symbol "■" to remind you to replace the batteries.

11. Changing the Batteries

When the LCD screen displays "Battery" the Batteries should be replaced. Open the lid and Change the batteries, 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 THM010-MT001.



12. Technical Specifications

1. Normal conditions of use

- Operating temperature: 10°C ~ 40°C (50°F ~ 104°F)
- Humidity rate: <85%

2. Power: DC 3V (2 batteries AAA)

3. Unit Size 130 x 45 x 55 m - 5.1 x 1.8 x 2.2 in (L x W x H)

4. Unit Weight : 74g (without batteries AAA)

5. Temperature Display Resolution: 0.1°C (0.1°F)

6. Measuring range:

In body mode : 32° C – 42.9° C (89.6° F – 109.2° F)

In Surface Temp mode : 0° C – 60° C (32° F – 140° F)

7. Precision : From 36° C to 39° C (96.8° F – 102.2° F) = $\pm 0.2^{\circ}\text{C}$ (0.4° F)

8. Consumption : < 300mW

9. Accuracy: $\pm 0.3^{\circ}\text{C}$ (0.6° F)

10. Measuring distance: 3-5cm (1.2in-2in)

11. Automatic stop: 5 sec.

13. Non-Contact Infrared Thermometer TH010-HT001 Precision

The Non-Contact Infrared Thermometer TH010-HT001 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.

14. Longevity Of The Product

The Non-Contact Infrared Thermometer TH010-HT001 was conceived for an intense and professional use. Its longevity is guaranteed for 40,000 takings.

15. Maintenance Of The Product

- The protective glass over the lens is the most important and fragile part of the thermometer. Take care when using, storing or cleaning.
- Clean the glass with cotton fabric dampened with a 95% alcohol solution.
- Do not use other batteries than AAA . Do not recharge non-rechargeable batteries, or throw batteries in fire. Please dispose of batteries properly.
- Remove the batteries when thermometer is not used for an extended period of time.
- Do not expose the thermometer to water or excessive sunlight.
- An impact may damage the product.

16. Accessories

User manual in English

Protective storage bag

Batteries supplied (AAA)

17. Troubleshooting

If you have problems while using your thermometer, please refer to this guide to help resolve the problem.

THE SCREEN DISPLAYS TEMPERATURE LOWER THAN 32°C (89.6°F): To take the surface temperature, press the “Mode” 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 TH010-HT001 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 or superior to 118°C (244.4°F) in Surface Temp Mode.



THE SCREEN DISPLAYS THE MESSAGE LO



When using the Non-Contact Infrared Thermometer TH010-HT001, the message LO can show on the screen. In this case, the temperature analyzed is under the measuring range selected, either less than 32°C (89.6°F) in Body Mode or less than 0°C (32°F) in Surface Temp 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 15 seconds minimum between readings; a one-minute pause is recommended.
The measuring distance is too far.	Take measurements at the recommended distance (between 3 and 5cm; 1.2" and 2").