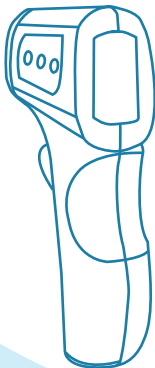




TG8818C

NON-CONTACT INFRARED THERMOMETER

Non-Touch Measurement by Infrared



**USER
MANUAL**

PLEASE READ THE USER MANUAL CAREFULLY BEFORE OPERATING.

Summary

Thank you for choosing Microtek Non-Contact Infrared Thermometer which is used to measure Body, Object or Room temperature based on the relationship between temperature and measurable infrared radiation.

Simply aim the probe toward the surface to be measured to obtain a quick and accurate temperature reading. Its measurement range: 32°C to 42.9°C (89.6°F to 109.2°F).

Storage & Operating Conditions

Storage Condition: The Thermometer should be stored at room temperature between -20°C to 55°C (-4°F to 131°F), RH <95%.

Operating Condition: Temperature 10°C to 40°C (50°F to 104°F)
RH <85%, 70-106Kpa.

Specifications

- 1) Power Supply: DC 3V (2AA Batteries)
- 2) Size: 170 x 110 x 50 mm
- 3) Weight (without Battery): 105Gms.
- 4) Measuring Range:
 - Body temperature: 32.0°C to 42.9°C (89.6°F to 109.21°F)
 - Object temperature: 0°C to 60°C (32°F to 140°F)
 - Room temperature: 10°C to 40°C (50°F to 104°F)
- 5) Three-Colour Backlight Indication Function
 - Body temperature measurement mode:
 - Green Backlight : $T < 37.3^{\circ}\text{C}$ ($T < 99.1^{\circ}\text{F}$)
 - Orange Backlight : $37.3^{\circ}\text{C} < T < 37.9^{\circ}\text{C}$ ($99.1^{\circ}\text{F} < T < 100.2^{\circ}\text{F}$)
 - Red Backlight : $T > 37.9^{\circ}\text{C}$ ($T > 100.2^{\circ}\text{F}$)

6) Automatic Shutdown: If the product is not operated within 30sec, it will automatically shut down to extend battery life.

7) a) Accuracy with respect to Measuring Temperature:

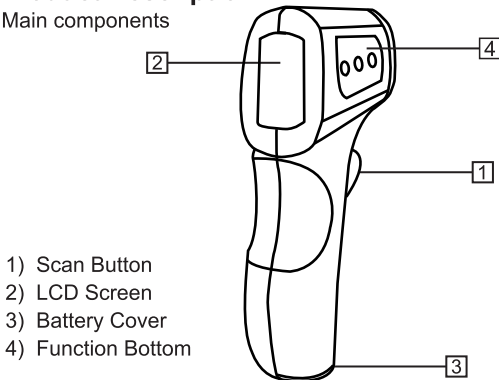
- $\pm 0.2^{\circ}\text{C}$ during 35°C to 42°C ($\pm 0.36^{\circ}\text{F}$ during 95°F to 107.6°F)
- $\pm 0.3^{\circ}\text{C}$ during 32°C to 34.9°C ($\pm 0.54^{\circ}\text{F}$ during 89.6°F to 94.8°F)
- $\pm 0.3^{\circ}\text{C}$ during 42.1°C to 42.9°C ($\pm 0.54^{\circ}\text{F}$ during 107.7°F to 109.2°F)

b) Accuracy with respect to Measuring Distance:

- $\pm 0.2^{\circ}\text{C}$ from 1 to 5cm ($\pm 0.36^{\circ}\text{F}$ from 1 to 5cm)
- $\pm 0.3^{\circ}\text{C}$ from 5 to 15cm ($\pm 0.54^{\circ}\text{F}$ from 5 to 15cm)

Product Description

Main components



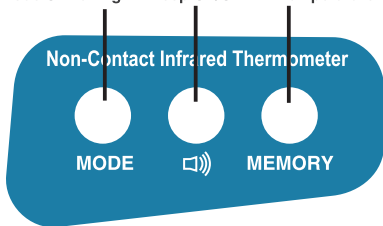
- 1) Scan Button
- 2) LCD Screen
- 3) Battery Cover
- 4) Function Bottom

Function Buttons

Mode Switching

Beep On/Off

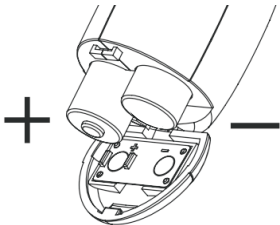
Temperature Memory



Battery Installation

Use 2 AA size Batteries.

Pay attention to the direction of the positive and negative sides.



Attention Important Information

Safety Precautions

- ▶ Before measuring temperature, make sure there is no sweat and hair on the forehead.
- ▶ The thermometer should be stored at room temperature between: 20°C to 55°C (68°F to 131°F), RH <95%.
- ▶ Do not touch the lens of the probe with your fingers.
- ▶ Do not drop the product. Infrared detectors are fragile parts.
- ▶ Do not put the thermometer under direct sunlight or moist environments.
- ▶ Please do not take measurement of temperature in a strong electromagnetic interference environment.
- ▶ This product is a measurement product, it is recommended to find a manufacturer or a qualified third-party organization to verify the accuracy of this product at one-year intervals
- ▶ To ensure the measurement data is accurate and reliable, the thermometer should be placed indoor in a stable temperature environment for 20 minutes before use.
- ▶ Use of this thermometer is not intended as a substitute for consultation with your physician. It is dangerous for users to perform a self-evaluation and self-treatment based on the measurement result. Be sure to follow your physician's instructions.
- ▶ This product is designed for measuring the frontal temperature. The surface temperature mode and room temperature test mode temperature are for reference only.

Operating Instructions

Environment

- 1) In order to make accurate temperature results, put the thermometer in the measuring environment for 20 minutes before use.
- 2) For accurate reading the ambient temperature should

be in the range of 10°C to 40°C. (50°F to 104°F). Do not measure under direct sunlight or air conditioner flow. Clean forehead and arrange hair, make sure the forehead is naked and clean (wait 10 minutes after exercising or bathing before measurement). Before use, it is recommended that the measurer take his own body temperature with thermometer & compare it with using this product.

- 3) Accuracy may decrease if there are unexpected fluctuations in ambient temperature, for example, testing in front of an air conditioner or a fan.
- 4) Do not use this product under direct sunlight.
- 5) It is recommended to measure a maximum of three times in a row and to use the average of the results. For body temperature measurement, place the measurement sensor head as close as possible to the forehead. The most accurate temperature can be obtained when the measurement distance is in between 1 to 5cm. Press the scan button to display the temperature on the LCD screen. Release the scan button to lock the temperature value.

IMPORTANT:

This thermometer in most use cases is used as a Go/No-Go test for determining if a person has high fever or not. Therefore we recommend that this thermometer can be used from a distance of upto 15cm from forehead keeping the accuracy in mind. In the rare case that a person is found to have fever and screen becomes orange or red then a second reading is recommended from 1-5cm. This will help the person to have additional safety while operating against contacting infection.

Reference Value of the Body Temperature

1. Normal body temperature varies at different measuring locations on the body. The human body is a very complex bio-integrated system, the body temperature is an important data for normal life activities of the human body, usually we measure the temperature of forehead,

oral cavity or armpit to detect our health status. The body temperature measured in different parts will be different. Refer to the following Table for forehead temperature range.

Measuring	Normal Temperature (°C)	Normal Temperature (°F)
Forehead	36°C to 37.2°C	97.4°F to 98.4°F

- Human temperature varies at different times of the day & is also affected by other factors, such as age, sex and other physical attributes. Refer to the following table for temperature range of different ages:

Age	Normal Temperature (°C)	Normal Temperature (°F)
0~2 Years	36.4°C to 38.0°C	97.5°F to 100.4°F
3~10 Years	36.1°C to 37.8°C	97.0°F to 100.0°F
11~65 Years	35.9°C to 37.6°C	96.6°F to 99.7°F
>65 Years	35.8°C to 37.5°C	96.4°F to 99.5°F

Notes: The body temperature of women is different from that of men. Generally, it is 0.3°C (0.54°F) higher than that of men. During ovulation, the body temperature will be 0.3°C to 0.5°C (0.54°F to 0.9°F) higher than the usual temperature.

Battery Replacement

- When a low battery symbol appears and flashes on the LCD screen, it indicates that the battery is low & needs to be replaced.
- Open the battery case and take out the old batteries. Put the new batteries in the slots and close it.
- When replacing the battery, please pay attention to whether the positive and negative poles are placed correctly.
- Please do not use batteries that do not meet the requirements.

5. When not in use for a long time, please take out the battery to prevent the battery fluid from damaging the product.

Daily Maintenance:

External Cleaning: Do not touch, tamper or clean the infrared probe with any alcohol solution or other chemical reagents.

For other external surfaces wipe the dirt with a clean soft cloth moistened with water or wipe with a cotton swab moistened with medical alcohol, which has a surface disinfection effect. Never use too much water or alcohol, so as not to penetrate into the interior & cause product damage.

Infrared Probe Cleaning: The internal infrared detector is an important optical device, please do not touch or press with your fingers or other objects, otherwise it will affect the calibration of the product measurement. In the rare case if the infrared detector becomes dirty, with extreme caution wipe it with a cotton swab dipped in 99% absolute alcohol.

SETTINGS:

Mode Selection: To switch between Body, Object or Room Temperature please press the mode switch. The selected mode will appear on the screen.

Fahrenheit and Celsius Selection:

1. Long press the "MODE" key for 2 seconds to enter the setting state "F-1" ("F-1" is the °F to °C / °C to °F setting). F-1 will display on the screen.
2. Press the "MODE" key to switch between Fahrenheit and Celsius.
3. Press "MEMORY" to go ahead to "F-2" ("F-2" is the body temperature alarm temperature setting). The default is 38°C, the range of modification is "37.3°C to 39.1°C". (In case you want to change press "MODE" key).
4. Press "MEMORY" to switch to "F-4" ("F-4" is manual temperature compensation setting). The default compensation value is 0, & the adjustable range is "-3°C to 3°C (26.6°F to 37.4°F)". (In case you want to change press "MODE" key).
5. Press the "MEMORY" key to Save and Exit.

NOTE: In case of opening or tampering with the device, the company will not be liable for any inaccuracy or product support.