



Non Contact

Infrared Body Thermometer



Owner's Manual

REF HTD8813AU

NON CONTACT INFRARED BODY THERMOMETER 2

Owner's manual

Intended Use


The Non Contact Infrared Body Thermometer is intended to be used by consumers in a home-use environment (such as home settings) or places of business as an employee screening tool excluding any healthcare facilities.

Only the body mode was reviewed and certified by manufacturer's notified body.

Safety Information

This device may only be used for the purposes described in these instructions. The manufacturer cannot be held liable for damage caused by incorrect application.

Important Safety Instructions:

-  **DO NOT operate the HTD8813 thermometer without completely reading and understanding these instructions.**
- Keep out of reach of children under 12 years.
- **NEVER** use the thermometer for purposes other than those for which it has been intended. Please follow the general safety precautions when using on children.
- **NEVER** immerse the thermometer into water or other liquids (not waterproof). For cleaning, please follow the instructions in the "Care and Cleaning" section.
- **DO NOT** store this thermometer in temperature below -20°C or over 55°C (extremes below -4°F or over 131°F) or in excessive humidity (up to 93% non-condensing relative humidity).
- Let the thermometer and individual being measured acclimate to the temperature of the room for 30 minutes in which the measurement will be taken.
- Before using, allow the thermometer to remain in the room in which it will be used for 30 minutes. The room temperature should be between 15°C to 40°C (59°F - 104°F).
- The individual being measured should be indoors for 20 minutes before taking a measurement, as external temperature can impact skin temperature.
- In the event that you can't follow the ambient acclimation guidance due to using this device as a screening tool, the reading displayed may shift up or down as a result of the temperature subjects are coming from compared to the temperature they are being measured in. If that is the case, judge individuals against each other, and any individual that is reading 0.8°C (1.5°F) higher or lower than the normal, should be measured again following acclimation.
- **DO NOT** use the thermometer if there are signs of damage on the scanner or on the thermometer itself. If damaged, **DO NOT** attempt to repair the product.
- **NEVER** insert a sharp object into the scanner area or any other open surface on the thermometer.

- This thermometer consists of high-quality precision parts. **DO NOT** drop the instrument. Protect it from severe impact and shock. **DO NOT** touch the infrared sensor with your fingers.
- Use of this thermometer is not intended as a substitute for consultation with your physician.
- Temperature elevation may signal a serious illness, especially in neonates and infants, or in adults who are old, frail, or have a weakened immune system. Please seek professional advice immediately when there is a temperature elevation and if you are taking temperature on:
 - Neonates and infants under 3 months (Consult your physician immediately if the temperature exceeds 37.4 °C [99.4 °F])
 - Individuals over 60 years of age (Fever may be blunted or absent in older patients)
 - Individuals having diabetes mellitus or a weakened immune system (e.g., HIV positive, cancer chemotherapy, chronic immunosuppressant treatment, splenectomy)
 - Individuals who are bedridden (e.g., nursing home patient, stroke, chronic illness, paraplegia, quadriplegia, surgical recovery)
 - A transplant recipient (e.g., liver, heart, lung, kidney)
- This thermometer is not intended for pre-term babies or small-for-gestational age babies. Pre-term is defined as baby, born before 37 weeks of pregnancy are completed. Small-for-gestational-age is defined as a newborn baby (birth to 4 weeks of age), born at 37 weeks or later, with a weight below the 10th percentile for newborn babies of the same gestational age.
- This thermometer is not intended to interpret hypothermic temperatures. If the device displays a temperature of 35.6°C (96.1°F) or less with no LED backlight, and the individual is exhibiting atypical symptoms or behaviors, contact your physician or health care professional.
- **DO NOT** allow children to take their temperatures unattended.
- Please consult your physician if you see symptoms such as unexplained irritability, vomiting, diarrhea, dehydration, changes in appetite or activity, seizure, muscle pain, shivering, stiff neck, pain when urinating, etc., even in the absence of fever.
- Even in the absence of fever, those who exhibit a normal temperature may still need to receive medical attention. People who are on antibiotics, analgesics, or antipyretics should not be assessed solely on temperature readings to determine the severity of their illness.
- **DO NOT** modify this equipment without the authorization of the manufacturer.
- **DO NOT** throw batteries into fire. Only use recommended batteries. **DO NOT** use rechargeable batteries.
- If measuring human forehead temperature, please select “body” mode; if measuring objects, liquids, food, or other objects, please select “surface” mode.

Overview

Description of Non Contact Infrared Body Thermometer

• Device principle and introduction:

The Non Contact Infrared Body Thermometer is a hand-held, reusable, battery operated device, which can measure human body temperature using the forehead as the measurement site (the skin temperature on one's forehead.) The operating principle is based on Infrared (IR) Sensor technology. When measuring, the IR Sensor acquires infrared energy from the target forehead. Taking into account the ambient temperature, the thermometer turns the signal from the IR Sensor to a digital value and displays it on the LCD.

• Description on Controls, Indicators, and Symbols

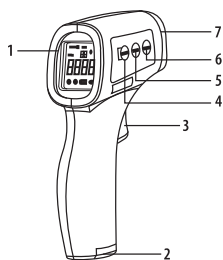


Figure 1

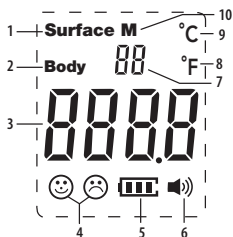


Figure 2

HTD8813AU Non Contact Infrared Body Thermometer
















Figure 1

- | | |
|------------------------|----------------|
| 1. LCD Display | 4. SET Button |
| 2. Battery Cover | 5. MEMO Button |
| 3. On (Trigger) Button | 6. MODE Button |
| | 7. IR Sensor |

Figure 2

- | | |
|---------------------------|---------------------------|
| 1. Surface Mode | 6. Voice on/off Indicator |
| 2. Body Mode | 7. Memory Number |
| 3. Digital Display | 8. °F (Fahrenheit) |
| 4. Smile or Cry Indicator | 9. °C (Celsius) |
| 5. Battery Indicator | 10. Memory |

Equipment Symbols

	Caution		Operating Atmospheric Pressure
	Nonsterile Packaging		Recyclable
	Consult Instructions for Use		Compliance with WEEE Standard
	Operating Temperature		BF Type Applied Part
	Operating Humidity		Manufacturer
	Authorized representative in the European Community		Batch Code
	Serial Number		Catalogue Number
	Date of Manufacture		
IP22	IP22: Protected against solid foreign objects greater than 12.5 mm in diameter and dripping water when tilted at 15°		

Technical Specifications

Measurement unit	°C/°F
Operating mode	Adjusted mode (Body mode) Direct mode (Surface mode)
Measuring site	Forehead
Reference body site	Axillary
Measuring range	Body mode: 34.0°C~43°C/93.2°F~109.4°F Surface mode: 0°C~100°C/32°F~212°F
Laboratory accuracy	Body mode: ±0.2°C/±0.4°F for the range 35.0°C -42.0°C/95°F~107.6°F ±0.3°C/±0.5°F outside of that range Surface mode: ±2.0°C/±3.6°F

Technical Specifications

Display Resolution	0.1°C/0.1°F
Fever InSight (Three-Color Backlight)	35.7-37.3°C/96.2-99.2°F: Green Backlight (Normal); 37.4-38.4°C/99.3-101.1°F: Yellow Backlight (Fever) 38.5-43.0°C/101.2-109.4°F: Red Backlight (High Fever) Notes: 1. Surface mode always displays temperature with a Green backlight. 2. In body mode, 34.0°C to 35.6°C(93.2°F to 96.1°F) will be displayed with No LED backlight.
Auto Power Off Time	≤18 seconds
Measuring Time	≤2 seconds
Measuring Distance	1 cm to 5 cm (0.4 inches to 2 inches)
Memory	50
Power Supply Requirements	
Batteries	1.5V (AAA) Alkaline battery x 2 (IEC Type LR03)
Operable Voltage Range	2.6V~3.6V
Environmental	
Operating Environment	Temperature: 15°C – 40°C (59°F – 104°F), Relative Humidity≤85% non-condensing, Atmospheric Pressure: 0.7 atm to 1.04 atm (70 kPa to 106 kPa)
Transport and Storage Environment	Temperature: -20°C – 55°C (-4 °F – 131°F), Relative Humidity ≤93%, non-condensing Atmospheric Pressure: 0.7 atm to 1.04 atm (70 kPa to 106 kPa)
Dimensions and Weight	
Weight (without batteries)	90g (3.2 ounces)
Size	L:138mm X W:95mm X H:40mm (L: 5.4" x W: 3.7" x H: 1.6")
Home healthcare environment	EN 60601-1-11

Safety classification of ME EQUIPMENT

Protection against electric shock	Internally powered ME equipment
Applied part	Type BF Applied Part
Protection against harmful ingress of water or particulate matter	IP22
Mode of operation	Continuous operation

Note: Not intended to be sterilized. Not for use in an OXYGEN RICH ENVIRONMENT

MEDICAL ELECTRICAL EQUIPMENT needs special precautions regarding EMC.

For detailed description of EMC requirements please contact Consumer Relations.

Portable and mobile RF communications equipment can affect MEDICAL ELECTRICAL EQUIPMENT.

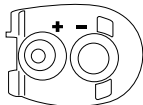
Remove the battery from the instrument if it is not required for extended periods of time in order to avoid damage to the thermometer resulting from a leaking battery.

Operation

Battery installation

CAUTION: The Non Contact Infrared Body Thermometer does not operate with dead batteries and does not input outer power. Install new batteries.

- 1) Pull the battery door out in the direction of the arrow and then lift up to access the battery compartment.
- 2) Insert two AAA size batteries according to the "+" and "-".
- 3) Close the battery cover.



How to Operate

Before Applying the Thermometer

Be sure to read and understand all warnings listed on the instructions before use.

- The thermometer should align with the middle of the forehead to measure body temperature (between and directly above the eyebrows) at a vertical distance. Press the On (Trigger) button and the temperature will display immediately.



Measuring position and distance

- Position thermometer 1-5 cm from center of the forehead. Be careful because there will be no alarm if the thermometer is further away. If the eyebrow area is covered with hair, sweat or dirt, please clean the area beforehand to improve the reading accuracy.
- Before using, allow the thermometer to remain in the room in which it will be used for 30 minutes. The room temperature should be between 15°C and 40°C (59°F and 104°F).
- The ambient temperature around the test person should be stable. **DO NOT** take human temperature measurements near air flow from fans, air-conditioning vents, etc.
- When people move from a place of lower temperature a place of higher temperature, they should remain in the test environment for at least 5 minutes, to be consistent with the ambient temperature before their temperature is measured.
- In the event that you can't follow the ambient acclimation guidance due to using this device as a screening tool, the reading displayed may shift up or down as a result of the temperature subjects are coming from compared to the temperature they are being measured in. If that is the case, judge individuals against each other, and any individual that is reading 0.8°C (1.5°F) higher or lower than the normal, should be measured again following acclimation.
- Wait at least 1 second for the next measurement. If measuring continuously five times, it is recommended to wait at least 30 seconds and then continue measurement.
- **DO NOT** use this thermometer in direct sunlight.

General Setup and Use

• Start measuring

Align the device to forehead at a distance of 1-5cm (0.4-2.0 inches), then press the On (Trigger) button to start the measurement and read the data. The thermometer will perform a self-test with all segments displayed for 2 seconds.

Note:

1) After full display is over, you will hear a single “beep” for a normal temperature or 4 “double beeps” for an elevated temperature, which means that the measurements have been completed. The target value of the measured temperature is displayed on the LCD, while the backlit displays one of three colors red, green, yellow. Green means ready for the next measurement. If 37.4°C - 38.4°C (99.3°F - 101.1°F), yellow is displayed, which means slight fever warning. Please pay attention to body temperature. When the body temperature is above 38.4°C (101.1°F), red is displayed, which means high fever. Please take action to cool down or go to a doctor.

2) To ensure the accuracy of the measurement, wait at least 30 seconds after 5 consecutive measurements.

• Mode conversion

When the device is on, pressing the MODE button to cycle conversion between “body” mode and “surface” mode.

“body” mode is used for measuring human body temperature, the “surface” mode is used to measure the surface temperature. (The factory default is “body” mode).

• **Recalling and Erasing Memory Data**

The last temperature taken before the thermometer powers off is stored in memory, up to 50.

- 1) When the thermometer is turned on or off, press the MEMO button to view the history of measured values.
- 2) An empty memory cell shows “----°C” or “----°F”.
- 3) Temperature readings can be stored in memory. Up to 50 temperature readings can be stored into the memory cells and automatically overwrite historical data.
- 4) While the thermometer is on, press the MEMO button until the LCD display “CLR”, which means that all stored data is cleared completely.

Changing the Temperature Scale – F1

Turn the thermometer on, press and hold the SET button to enter F1, press the “MODE” or “MEMO” button to switch Celsius and Fahrenheit temperature units, press the trigger to confirm the unit settings (factory default is Fahrenheit)

Turning the Sound On/Off

While the thermometer is turned on, press the SET button to turn on or off the prompt sound function.

Advanced Settings:

Warning: The following settings are only meant to be used by professionals. It is recommended to keep this thermometer at the settings originally programmed on the device.

Fever Alert Set – F2

This setting will change at what point the backlight color of the temperature reading turns to red. After entering the screen for changing the temperature scale, F1, press the “SET” button to enter F2. Press the “MODE” button to decrease this value by 0.1°C (~0.2°F). Press the “MEMO” button to increase this value by 0.1°C (~0.2°F). Press the “SET” button to save the setting. The factory default and highly recommended temperature to have this set at is 38.5°C (101.2°F).










Sound Settings – F3

This setting will change the buzzer to be on or off. While in Fever Alert Setting, F2, press the “SET” button to enter F3. Press the “MODE” or the “MEMO” button to turn the volume on or off. Press the “SET” button to save this setting. This can also be changed using the directions outlined in “Turning the Sound On/Off”.

Factory Reset


If at any point you want to return your thermometer to the factory settings, while thermometer is turned on, press and hold the “MODE” button until the LCD displays “rst”. After 2 seconds the factory settings will be restored to the device.

Troubleshooting

MESSAGE	SITUATION	SOLUTION
	Temperature taken in not within Typical human temperature range. (34.0°C~43°C or 93.2°F~109.4°F).	Make sure the forehead thermometer is for forehead measurement, not another human body site.
		
	Measured over the distance: 1-5 cm (0.4-2in)	Verify that you are measuring from 1-5 cm (0.4-2in) of the forehead.
	Incorrect test position.	See figure 2 measuring position and distance.
	Subjects forehead hair, Antipyretic stickers, head with sweat, etc.	Have subjects sit quietly 5-10 minutes before the test.
	Operating temperature exceeds the range of specified temperature 15°C – 40°C (59°F – 104°F).	Move to a room within the operating range and wait 30 minutes before taking temperature.
	The screen flicker, automatically turns off.	Replace battery or the product has been damaged, and needs repairs
	Low Battery Warning: When the battery is running low, the display flashes the low battery warning symbol; however, the device can still work until the battery life has 0% left	Install a new battery. See “Replacing the Battery” for instructions.
	Dead Battery Warning: Device cannot take temperature.	Install a new battery. See “Replacing the Battery” for instructions.
	Ambient temperature changes too fast	Wait until the ambient temperature is stable.
	(1) Power is off. (2) Improper battery installation. (3) The battery is exhausted. (4) Display remains blank.	(1) Press ON button again. (2) Check the battery polarity. (3) Replace with a new battery. (4) Contact the retailer or service center.

Replacing the Battery

1. Open and release battery cover following indicator on the surface of battery cover. Before changing the battery be sure the system is powered off.
2. Remove the battery and replace with 2 new ones, type AAA. Make sure to align properly as indicated inside the battery cover.
3. Slide the battery cover back in until it snaps in place. Do not dispose of used batteries in household waste. Take them to special local collection sites.
4. In the instance that the system is latched up after changing battery, you may not follow the process of rule one. Just take off the batteries, wait 30 sec, then load batteries again.

 Only discard empty batteries. To protect the environment, dispose of empty batteries at your retail store or at appropriate collection sites according to national or local regulations.

WARNING

DO NOT recharge, disassemble or dispose of it in fire.

1. The typical service life of the new and unused batteries is 2000 measurements for the operation time of 18s.
2. Only use the recommended batteries, do not use rechargeable batteries and do not burn them.
3. Remove the batteries if the thermometer is not to be used for a long period of time.

Cleaning, Care and Storage

- The lens is very delicate.
- It is very important to protect the lens from dirt and damage.
- Use a clean, soft cloth to clean the surface of the device and LCD. Do not use solvents or immerse the device into water or other liquids.
- Always keep the thermometer within the storage temperature range (-20°C to 55°C or -4°F to 131°F) –and humidity range (≤93% non-condensing).
- It is recommended to store the thermometer in a dry location free from dust. Do not expose the thermometer to direct sunlight, high temperature/ humidity or any extreme environments, otherwise the function will be reduced.
- When the ambient temperature of the thermometer changes too much, such as moving the thermometer from one place of lower temperature to another place of higher temperature, allow the thermometer to remain in a room for 30 minutes where the temperature is between 15°C to 40°C (59°F- 104°F)

Disposal

1. Used batteries should not be disposed of in the household rubbish. Used Batteries should be deposited at a collection point.
2. At the end of its life, the appliance should not be disposed of in household rubbish. Enquire about the options for environment-friendly and appropriate disposal. Take local regulations into account.

Warranty

You should first read all Instructions before attempting to use this product.

This product has been produced with the greatest care for normal, household use. Following directions carefully will ensure dependable operation. If for any reason (other than misuse or normal battery operation) you are dissatisfied with your Vicks Forehead Thermometer, we will repair or replace it, at our option, at no charge during the 2 year warranty period. Modification to the product by the consumer is not authorised and voids the warranty.

If the thermometer does not function properly, first check the battery. Replace if necessary. Batteries and packaging are excluded from the warranty.

If you experience unsatisfactory operation, please contact Felton Grimwade & Bosisto's. If repair is required under the warranty period, the product should be returned with proof of purchase to Felton Grimwade & Bosisto's service centre.

The purchaser assumes responsibility for the proper care and use of the product in accordance with the printed operating manual. The purchaser or user must make his or her judgment as to when to use the product and the length of use. Keep the operation manual available as it is your guide to safe, efficient operation.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Calibration

The thermometer is initially calibrated at the time of manufacture. If this thermometer is used according to the use instructions, periodic re-adjustment is not required. If at any time you question the accuracy of temperature measurements, please contact us.

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