INTRODUCTION

The Non-Contact Infrared Body Thermometer Operating Instructions intend to provide the necessary information for proper operation of HTD8813C TIE-240 Thermometer model.

General knowledge of Infrared Thermometer and an understanding of the features and functions of the HTD8813C Thermometer model are prerequisites for proper use. The Non-Contact Infrared Body Thermometer is a medical device and can be used repeatedly and has a 3-year life expectancy.

Please read the manual first before using it. If the usage is not fully understood, please stop using the thermometer.

Do not operate any of the model HTD8813C TIE-240 Thermometer without completely reading and understanding these instructions.

NOTE:

Purchase or possession of this device does not carry any express or implied license to use with replacement parts which would, alone or in combination with this device, fall within the scope of one of the relating patents.

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.

The Non-Contact Infrared Body Thermometer is designed to minimize the possibility of hazards from errors in the software program by following sound and tight Engineering Design Processes, Risk Analysis and Software Validation.

WARNING

WARNINGs ARE IDENTIFIED BY THE WARNING SYMBOL SHOWN ABOVE.

- The Non-Contact Infrared Body Thermometer is to be operated by consumers in the home setting and primary care setting as a screening tool. This manual, accessories, direction for use, all precautionary information and specifications should be read before use.
- This product is designed to measure human body temperature on the forehead. DO NOT use it on any other body part.
- This product is intended in the home setting and primary care setting as a screening tool.
- DO NOT use the thermometer if it malfunctions or has been damaged in any matter.
- 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 59°F - 95°F (15°C - 35°C).
- DO NOT use the thermometer if it malfunctions or has been damaged in any matter.
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- DO NOT use primary batteries if equipment is not likely to be used for a long time.
- This product is not waterproof. Do not immerse in water or other liquid for cleaning and disinfection. Please follow the “Care and Storage” section requirements.
- DO NOT touch the sensor of infrared detection with your fingers.
- If a cold compress is used on the forehead when a fever is present or when other measures are used to cool down, the temperature data will be low and will not be accurate when measuring the body temperature.
- When measuring the human forehead temperature, please select “body” mode.
- For measuring other objects, liquids, food and other temperatures, please select “surface” mode.
- This product must be operated in a stable environment. Refer to the “Care and Storage” section.
- DO NOT use near strong electrostatic or magnetic fields, thus avoiding the impact on the accuracy of the measurement data.
- DO NOT mix old and new batteries to avoid damage to the product.
• The accuracy of the measurement may be affected when the forehead is covered by hair, perspiration, cap or a scarf.
• Measurement results are for reference only. Contact your physician if you have or suspect you have a medical problem.
• The device should be kept out of the reach of children and pets. When not in use, store the device in a dry room and protect it against extreme moisture, heat, lint, dust and direct sunlight. Never place any heavy objects on top of the thermometer.
• Do not drop, disassemble or modify the device.
• Do not use this device if you think it is damaged or notice anything unusual.
• This device is comprised with sensitive components and must be treated with care. Observe the storage and operating conditions described in the "Technical Specifications" section.
• Do NOT perform service or maintenance while the thermometer is in use.
• While in use, DO NOT touch the battery and the person at the same time.
• DO NOT use the device if it is damaged, degraded, or loosened in any way. The continuous use of a damaged unit may cause injury, improper results, or serious danger.
• Based on the current science and technology, other potential allergic reactions are unknown.
• This equipment needs to be installed and put into service in accordance with the information provided in the ACCOMPANYING DOCUMENTS.

Figure 1: Infrared Body Thermometer

CONTROLS, INDICATORS AND SYMBOLS

| 1. Liquid crystal display (LCD) | 10. Data indicator |
| 2. Battery Cover | 11. Indicator of measurement result |
| 3. ON/measure button | 12. Low Battery indicator |
| 4. SET button | 13. Volume on/off indicator |
| 5. MEMO button | 14. Memory Number |
| 6. MODE button | 15. Fahrenheit |
| 7. IR sensor | 16. Celsius |
| 8. Surface mode | 17. Memory indicator |

Thermometer Applications

<table>
<thead>
<tr>
<th>Thermometer Model Number</th>
<th>Thermometer Style</th>
<th>Adult</th>
<th>Pediatric</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTD8813C</td>
<td>Non-Contact Infrared Body Thermometers</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

Equipment Symbols

1. Warning
2. Non-sterile packaging
3. Operating instructions
4. Operating temperature
5. Operating humidity
6. Serial number
7. Manufacturer
8. Recyclable
9. This device complies with Part 15 of FCC (Federal Communications Commission) Rules.
10. IP22: The first number 2: Protected against solid foreign objects of 12.5 mm or greater. The second number: Protected against vertically falling water drops when encased tilted up to 15°.
TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Measurement Unit</th>
<th>°C / °F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating mode</td>
<td>Advanced mode (body mode)</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>100%</td>
</tr>
<tr>
<td>Reference Body Site</td>
<td>Battery</td>
</tr>
<tr>
<td>Sensor output range</td>
<td>Body mode: 35°C-50°C (95°F-122°F)</td>
</tr>
<tr>
<td>Temperature</td>
<td>Body mode: -5°C-45°C (23°F-113°F)</td>
</tr>
<tr>
<td>Display Resolution</td>
<td>3.5” x 0.7”</td>
</tr>
<tr>
<td>Display refresh rate</td>
<td>180 refresh/sec</td>
</tr>
<tr>
<td>Operating twilight (Color change)</td>
<td>White (Daylight) to Red (Night)</td>
</tr>
<tr>
<td>Auto Power Off Timer</td>
<td>45s</td>
</tr>
<tr>
<td>Measuring Time</td>
<td>1s</td>
</tr>
<tr>
<td>Measuring Distance</td>
<td>10m (32.8 ft)</td>
</tr>
<tr>
<td>Batteries</td>
<td>2 AA</td>
</tr>
</tbody>
</table>

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 downward, toward the bottom of the Non-Contact Infrared Body Thermometer and remove the battery access door.
2. Install or replace using 2 AAA batteries in the battery compartment 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 in the instructions before use.

・ The thermometer is aligned with the middle of the forehead to measure body temperature (between the eyebrows center it above at the forehead level). Keep the vertical distance, press the On/Scan button, the temperature will display immediately, see Figure 2.

Figure 2: Measuring position and distance

・ 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 59°F to 104°F (15°C to 39°C).

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GREEN - Normal temperature (95.9°F - 99.1°F / 35.5°C - 37.3°C)
YELLOW - Slight fever (99.2°F - 100.4°F / 37.4°C - 38.0°C)
RED - High fever (100.6°F - 109.2°F / 38.1°C - 42.9°C)

When the result is a high fever, please consult your doctor or physician.

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

- **Mode Conversion**
  When the device is running, pressing the MODE button to cycle between “body” mode and “surface” mode.

- **Recalling and Erasing Memory Data**
  1. In the boot or shutdown state, short press the MEMO button to view the history of measured values.
  2. If there are no memories, the display will show “---°F” or “---°C” means ready for next measurement.
  3. Temperature readings can be stored in memory. Up to 50 temperature readings can be stored into the memory cells and automatically overwrites historical data.
  4. In boot mode, press and hold the MEMO button until the LCD displays “CLR” and you hear a beep. Once deleted, the memories cannot be restored.

- **Parameter Setting**
  The thermometer can be adjusted according to the subjects of different colors and different environments data to meet the different characteristics of populations or individuals. Long press the MODE button to modify the measurement parameters.

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**REPLACING THE BATTERIES**

1. **Unit Set F1**
   Under the boot mode long press SET button to enter F1, press the MODE or MEMO button to switch Celsius and Fahrenheit temperature units, and press the SET button to confirm the unit settings (factory default is “°F”).

2. **Fever Alert Set F2**
   Under F1 state, press SET button to enter the F2, press the MODE button to decrease 0.1 °C, press the MEMO button plus 0.1 °C, long press to accelerate the speed of temperature regulation, and finally press the SET button to save. (The factory default is 38.1°C)

3. **Prompt Sound Setting F3**
   Under F2 state, short press SET button to enter F3, press MODE or MEMO button to set voice switch, and press the SET button to confirm the settings. (The factory default is the voice prompt to open).

4. **Overall Temperature Offset Value F4**
   To meet the different colors and characteristics of the populations or the environment caused by seasonal temperature change, is large that need for temperature detection and debugging.
   Under F3 state, short press the SET button to enter F4, press the MEMO button to plus 0.1 °C, press the MEMO button decrease 0.1 °C, long press fast subtraction temperature, and then SET button to confirm the parameter setting.
   Parameter adjustment range: -5°C and +5°C (factory default is 0).

5. **Exit Setting Mode**
   In the F4 mode, press the SET button and the screen will automatically turn off, exit setting.

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**TROUBLESHOOTING**

<table>
<thead>
<tr>
<th>MESSAGE</th>
<th>SITUATION</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>Temperature is out of typical human body temperature range (95.9°F - 100.4°F).</td>
<td>Make sure the forehead thermometer is for forehead measurement, not other human body site.</td>
</tr>
<tr>
<td>L</td>
<td>Measured over the forehead is cold or dry.</td>
<td>Subject’s forehead is free from any Algolic, oil, alcohol, hand with scarf, etc.</td>
</tr>
<tr>
<td>Err</td>
<td>Operating temperature exceeds the range of specified temperature.</td>
<td>Subject is in a quiet room, 15 minutes before the test.</td>
</tr>
<tr>
<td>POS</td>
<td>Ambient temperature changes too fast but is steady.</td>
<td>Warm until the ambient temperature is steady.</td>
</tr>
<tr>
<td></td>
<td>The screen flashes, automatic turn off.</td>
<td>Replace battery or the product has been damaged, needs repairs.</td>
</tr>
<tr>
<td></td>
<td>The screen flashes, automatic turn off.</td>
<td>Install a new battery.</td>
</tr>
</tbody>
</table>

**Warning**

- **DO NOT RECHARGE, DISASSEMBLE OR DISPOSE OF IN FIRE.**
  - The typical service life of the new and unused batteries is 2000 measurements for an operation time of 18s.
  - Only use the recommended batteries, do not recharge non-rechargeable batteries and do not burn them.
  - Remove the batteries if the thermometer is not to be used for a long period.
  - Clean contacts on battery and in battery compartment with a soft, dry cloth each time you install batteries.
  - Batteries are hazardous waste. DO NOT dispose of them together with household garbage.
  - DO NOT dispose of batteries in fire. Batteries may explode or leak.
  - Recycle or dispose of properly in accordance with local, state, province, and country regulations.
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 (-4°F to 131°F or -20°C to 55°C) 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 environment, 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 59°F to 104°F (15°C to 35°C).

DISPOSAL

• Recycle or dispose of properly in accordance with local, state, province, and country regulations.
• At the end of its life, the appliance should not be disposed of in household rubbish. Inquire about the options for environment-friendly and appropriate disposal. Follow local ordinances.

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 Consumer Relations.

EMC DECLARATION

This equipment needs to be installed and put into service in accordance with the information provided in the ACCOMPANYING DOCUMENTS; this product needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided, and this unit can be affected by portable and mobile RF communications equipment.
• DO NOT use a mobile phone or other devices that emit electromagnetic fields, near the unit. This may result in incorrect operation of the unit.
• CAUTION: this unit has been thoroughly tested and inspected to assure proper performance and operation!
• The Non-Contact Infrared Body Thermometer should assure that it is used in such an environment.
• If at any time you question the accuracy of temperature measurements, please contact Consumer Relations.

WARRANTY

HoMedics sells its products with the intent that they are free of defects in manufacture and workmanship for a period of one year from the date of original purchase, except as noted below. HoMedics warrants that its products will be free of defects in material and workmanship under normal use and service. This warranty extends only to consumers and does not extend to Retailers.

To obtain warranty service on your HoMedics product, contact a Consumer Relations Representative by telephone for assistance. Please make sure to have the model number of the product available.

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Phone: 1-800-466-3342
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P/N: TIE-240
Model: HTMDM3C

Gamut and manufacturer's declaration – electromagnetic intensity

The NonContact Infrared Body Thermometer is intended for use in an electromagnetic environment which cuts off RF emissions. The manufacturer or user of the NonContact Infrared Body Thermometer can verify that the operation of the equipment is in electromagnetic environment guidelines according to the electromagnetic environment guidelines for the frequency range of the equipment. The equipment is intended to be used in residential, commercial, and light industrial environments.

Recommended separation distance according to frequency of operation

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Separation distance (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 MHz to 100 MHz</td>
<td>1.2</td>
</tr>
<tr>
<td>100 MHz to 300 MHz</td>
<td>0.7</td>
</tr>
<tr>
<td>300 MHz to 1 GHz</td>
<td>0.3</td>
</tr>
</tbody>
</table>

NOTES:
1. All RF fields at and below the levels defined in this section do not interfere with the equipment performance.
2. The peak electric field strength in the residential environment is at least 30 dB below the peak electric field strength in the commercial and light industrial environment.
3. Over the frequency range 110 kHZ to 80 MHz, field strengths should be kept to less than 7 V/m.

For information on electromagnetic compatibility and safety standards, see the manufacturer's instruction manual. It is recommended that the equipment be used in an area with minimal RF emissions. The equipment can be used in areas where the RF emissions are below the levels defined in this section.

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P/N: TIE-240
Model: HTMDM3C