Safety Precautions
- Follow the maintenance advice outlined in this instruction manual.
- This thermometer is designed to be used as described in this instruction manual.
- This thermometer must only be used in an ambient temperature range of between 32°F(0°C) and 104°F(40°C).
- This thermometer must always be kept in a clean and dry area.
- Do not expose this thermometer to electric shocks.
- Do not expose this thermometer to extreme temperature conditions of >130°F(55°C) or <4°F(-20°C).
- Do not use this thermometer in relative humidity higher than 85%.
- The protective glass over the lens is the most fragile and important part of the thermometer. Please treat it with care.
- Do not touch the glass over the lens with your fingers.
- Do not expose the thermometer to the sunlight for a long period of time.
- Do not drop the thermometer.
- Do not let the thermometer touch the water.
- Should a problem occur with the thermometer, please contact Homewell Essentials. Do not attempt to repair this thermometer yourself.

HOMEWELL ESSENTIALS RESERVES THE RIGHT TO ALTER THE SPECIFICATIONS OF THE PRODUCT WITHOUT PRIOR NOTIFICATION

Intended Use
This infrared thermometer is intended to measure the temperature of infants and adults without contacting the body. It can be used by consumers in their household environment or by doctors in clinics as reference. It also can be used to measure room temperature and an object's surface temperature.
Introduction
The JXB-183 Non-contact Infrared Thermometer has been developed by using the latest infrared technology. This technology allows temporal artery (TA) temperature to be taken at a distance of about 1.2" ~ 2" inches away from the forehead. It has been demonstrated that this method of temporal artery temperature measurement is more precise than the in-ear thermometry and better tolerated than rectal thermometry (1).

However, as with other types of thermometer, it is essential to use the JXB-183 properly in order to obtain reliable and stable results. You are therefore encouraged to read this instruction manual and the safety precautions carefully before use.


Precautions before Use

This thermometer is pre-set at the factory.
It is not necessary to calibrate the thermometer when starting it up.

In order to obtain reliable and stable results, please be advised each time there is a significant change in the ambient temperature due to a change in environment, to allow the thermometer to acclimate to this ambient temperature for 15 to 20 minutes before using it.
It is important to allow 3~5 second interval between two measurements.
Operating Principle
All objects, solids, liquids or gases emit energy by radiation. The intensity of this energy depends on the temperature of the object. The JXB-183 infrared thermometer is therefore able to measure the temperature of a person by the energy the person emits. This measurement can be taken thanks to an external temperature probe on the device which permanently analyzes and registers the ambient temperature. 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.

The different methods of temperature measurement

Core temperature
Core temperature is the most precise measurement and involves measuring the temperature in the pulmonary artery by means of a catheter equipped with a thermal probe which can read the temperature inside. The same method is employed for probes measuring the oesophageal temperature. However, such invasive temperature measurement methods require specific equipment and expertise.

Rectal thermometry
Rectal temperature adjusts slowly in comparison to the evolution of the body’s internal temperature. It has been demonstrated that rectal
temperature remains raised long after the internal temperature of the patient has started to drop and vice versa. Furthermore, rectal perforations have been known to occur as a result of this method and without appropriate sterilization techniques, rectal thermometry can spread germs often found in feces.

**Oral thermometry**
Oral temperature is easily influenced by recent ingestion of food or drinks and by breathing through the mouth. To measure oral temperature, the mouth must remain closed and the tongue lowered for three to four minutes which is a difficult task for young children to accomplish.

**Axillary (armpit) temperature**
Although it may be easy to measure axillary temperature, it has been proven that it does not provide an accurate measurement of the child’s internal temperature. To take this type of temperature, the thermometer must be wedged tightly over the axillary artery. Despite the low sensitivity and relative inaccuracy of axillary temperature in detecting fever, this method is recommended by The American Academy of Pediatrics as a screening test for fever in newborns.

**Tympanic (in-ear) thermometry**
In order to obtain a precise temperature reading, good command of the measurement technique is required. The thermometer probe must be placed as close as possible to the warmest part of the external ear canal. An incorrectly placed probe could lead to a false temperature reading.
Normal temperatures according to measurement method

<table>
<thead>
<tr>
<th>Measurement Method</th>
<th>Normal Temp°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rectal</td>
<td>97.9°F ~ 100.4°F (36.6°C ~ 38°C)</td>
</tr>
<tr>
<td>Oral</td>
<td>95.9°F ~ 99.5°F (35.5°C ~ 37.5°C)</td>
</tr>
<tr>
<td>Axillary</td>
<td>94.5°F ~ 99.1°F (34.7°C ~ 37.3°C)</td>
</tr>
<tr>
<td>Auriculay</td>
<td>96.4°F ~ 100.4°F (35.8°C ~ 38°C)</td>
</tr>
<tr>
<td>Temporal</td>
<td>96.4°F ~ 100°F (35.8°C ~ 37.8°C)</td>
</tr>
</tbody>
</table>

The temperature of the human body varies throughout the day. It can also be influenced by numerous external factors.

Advantages of Temporal Artery (TA) temperature

Infrared arterial temperature can be measured using a device placed on the forehead, in the temporal artery region. It has been demonstrated that this relatively new method of measuring temperature is more precise than tympanic thermometry and better tolerated than rectal thermometry.

The JXB-183 thermometer has been designed to produce an instant forehead temperature reading without any contact with the temporal artery. As this artery is quite close to the surface of this skin and therefore accessible and given the blood flow is permanent and regular, it allows precise measurement of the temperature. This artery is linked to the heart by the carotid artery, which is directly linked to the aorta. It forms part of the main trunk of the arterial system. The efficiency, speed and comfort of taking a temperature from this area make it ideal compared with other temperature measurements methods.
Normal temperatures according to age

<table>
<thead>
<tr>
<th>Age</th>
<th>°C</th>
<th>°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-2 years</td>
<td>36.4-38.0</td>
<td>97.5-100.4</td>
</tr>
<tr>
<td>3-10 years</td>
<td>36.1-37.8</td>
<td>97.0-100.0</td>
</tr>
<tr>
<td>11-65 years</td>
<td>35.9-37.6</td>
<td>96.6-99.7</td>
</tr>
<tr>
<td>&gt; 65 years</td>
<td>35.8-37.5</td>
<td>96.4-99.5</td>
</tr>
</tbody>
</table>

Practical considerations when taking a temperature

- In order to ensure that precise and accurate temperature measurements are obtained, it is essential that each user has received adequate information on and training in the temperature measurement technique when using such a device.

- It is essential to remember that although procedures such as taking a temperature may be simple they must not be minimized.

- Temperature should be taken in a neutral state. The person must not have undertaken vigorous physical activity prior to taking his/her temperature and the room temperature must be moderate.

- Be aware of physiological variations in temperature which must be taken into consideration when evaluating the results: temperature increases by 0.9°F / 0.5°C between 6 am and 3 pm. Women have a temperature that is higher, on average, by around 0.6°F / 0.2°C. Their temperature also varies in accordance with their ovarian cycle. It rises by 0.9°F / 0.5°C in the second half of the cycle and at the early stages of pregnancy.

- When sitting, temperature is lower by about 0.5°F / 0.3°C to 0.6°F / 0.4°C than when standing.
How to take a temperature

Aim at the FOREHEAD, over the right temporal region, from a distance of about 1.2" ~ 2" inches, press the thermometer's Scan Button and the temperature is instantly displayed.

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

Constraints

Please observe the following before any temperature measurement to ensure a stable and reliable result:

- Push back hair from the forehead.
- Wipe away any perspiration from the forehead.
- Avoid any drafts (e.g. air conditioning...).
- Allow a 3~5 second interval between two measurements.

Each time there is a significant change in the ambient temperature due to a change in environment, please allow the thermometer to acclimate itself to this ambient temperature for at least 15 minutes before using it.
Basic Instrument

- Infrared Lens
- LCD Display
- Sound On/Off
- Memory
- Celsius or Fahrenheit

*homewell ESSENTIALS*

Non-contact Infrared Thermometer
Model No.: JXB-183
Batteries: 2×AAA(1,5V) 3V
Measuring Distance: 1,2in~2in
Distributed by: Huntkey USA, Inc. Made in China
Features
1. Specially designed to take the human body temperature with a 1.2 ~ 2 inch (3~5 cm) distance from forehead. It also can be used to measure room temperature and an object's surface temperature.
2. Reliable and stable measurement, thanks to the advanced infrared detection technology.
3. Audible alarm if body temperature is more than 100.4°F (38°C).
4. Memorize the last 32 temperature measurements.
5. Three color themed display based on body temperature.
6. Temperature unit can be displayed in either Celsius or Fahrenheit.
7. Automatic power-off (<30 secs) to save power.
8. Longevity use (40,000 readings).
9. Practical and easy to use.

Instructions
1. Install the included batteries. Make sure the terminals (+/-) are correct.

2. Wait for 10 to 15 minutes for the thermometer to warm up. This allows the thermometer to be acclimated to the ambient temperature.
3. Press the Scan Button, point towards the forehead from a distance of 1.2 to 2 inches away and press Scan Button again to take the temperature.

Tips: Do not move the thermometer before the testing is done.
1. Turning on the thermometer.
Press the Scan Button, one second after the screen panel in full display, it will enter the standby state with the sign “—°F”.
Then press the Scan Button again, you will get the measuring result in 1 second. But if there is no more operation, it will turn off in 30 seconds automatically.

2. Setting the mode.
   a. Under standby state, the screen displays: Body —°F.
   b. Press Mode Button and the screen will display: Room—°F.
   c. Press Mode button again and the screen will display: Surface temp —°F

Note: The thermometer default is set to BODY mode.

Important!
The surface temperature is different from body temperature. To obtain the body temperature, always use the Body mode. The Surface temperature mode captures the external area temperature reading.

3. Setting the temperature units. Under standby state, press °C/°F Button to switch between Celsius and Fahrenheit.

4. Viewing the measurement history. Under standby state, press Memory Button to view the last measurement. Keep pressing Memory Button to view the last 32 measurements. Press Memory Button and
hold for 5 seconds to delete all the memory data. Then press Memory Button again, the display will show "CLR".

5. Setting the sound on or off. Under standby state, press " ● " to turn on or off the sound. When the display shows "ON", the sound is on. When the display shows "OFF" the sound is off.

6. Recalibration of the thermometer via F4 MENU.
   The thermometer is pre-set properly in the factory. If you believe it is needed to be calibrated by comparing to conventional thermometer, follow the steps as below.
   a. Under standby state, press Mode Button and °C/ °F Button at the same time for 3 seconds. The screen will then display: "F4".
   b. Press Mode Button to increase 0.1°F(°C). Press °C/ °F Button to reduce 0.1°F(°C).
   c. Press Memory Button to save the setting.

7. Replacing the batteries. When the LCD display shows symbol " ▼ " , the batteries shall be replaced. Use two AAA alkaline batteries only. Do not mix old and new batteries.

**Technical Specifications**

1. Normal using condition
   Ambient temperature: 50°F ~ 104°F (10°C ~ 40°C)
   Relative humidity: ≤85%

2. Batteries: DC 3V (2 pcs AAA batteries)

3. Unit size: 5.12 x 1.77 x 2.17 inch 130 x 45 x 55 mm  (L x W x H)

4. Unit weight (without batteries): 2.6oz (75g)

5. Temperature display resolution: 0.1°F (0.1°C)

6. Measuring range:
   Body mode: 89.6°F ~ 109.2°F (32°C ~ 42.9°C)
   Under body mode, there are three color backlights:
   Green color backlight: ≤99.1°F (37.3°C), means normal temperature.
   Orange color backlight: 99.2°F~100.3°F (37.4°C~37.9°C), means temperature to watch.
Red color backlit: ≥100.4°F (38°C), means fever.
Surface temp mode: 32°F ~ 140°F (0°C ~ 60°C)
Room mode: 32°F ~ 104°F (0°C ~ 40°C)
7. Precision:
   89.6°F ~ 94.8°F (32.0°C ~ 34.9°C) ±0.6°F(±0.3°C)
   95°F ~ 107.6°F (35.0°C ~ 42.0°C) ±0.4°F(±0.2°C)
   107.8°F ~ 109.2°F (42.1°C ~ 42.9°C) ±0.6°F(±0.3°C)
8. Power consumption: ≤300mW
9. Measuring distance: 1.2in ~ 2in (3cm ~ 5cm)
10. Automatic power-off: ≤30 secs
11. Memory: 32 measurements

※ Note: The Non-contact Infrared Thermometer Model JXB-183 can take temperature readings below 89.6°F or above 109.2°F (32°C to 42.9°C) but precision is not guaranteed outside of this range.

**Maintenance of the Product**
- The protective glass over the lens is the most fragile and important part of the thermometer. Please treat it with care.
- Clean the glass with cotton swab dampened with 95% alcohol.
- Do not use rechargeable batteries. Please dispose the batteries properly.
- Remove the batteries if the thermometer is not going to be used for an extended period of time.
- Avoid any impact that may damage the thermometer.

**Accessories**
This instruction manual x 1
AAA alkaline batteries x 2
Carrying bag x 1
**Compliance**

This thermometer complies with the ISO 80601-2-56 and the European Standard EN60601-1-2 and is subject to particular precautions with regard to electromagnetic compatibility.

**Troubleshooting**

If you are experiencing problems while using your thermometer, please refer to the chart below to help resolve the problems. If the problem still exists, please contact our customer service.

<table>
<thead>
<tr>
<th>Thermometer doesn’t turn on.</th>
<th>Check the battery installation. Please make sure the terminals are aligned correctly.</th>
</tr>
</thead>
</table>
| The body temperature seems inaccurate. | It could be caused by the dramatical change of ambient temperature. Please wait for 15 to 20 minutes before using it.  
Or it could be caused by hair or perspiration or air draft. Please move the hair, wipe the perspiration or move to the location where there is no air blowing. |
| The temperature seems very off. | Please check if it is set in the right temperature mode.  
The body temperature can only be measured in Body mode.  
The surface temperature mode measures the external area temperature. |
| Showing Lo on the screen. | It does not mean the battery is low. It could be caused by pointing the thermometer to the wrong place when it is the Body mode.  
In Body mode, the display shows Lo when the temperature is lower than 89.6°F(32°C) |
| Showing Hi on the screen. | It could be caused when by pointing the thermometer to the heat source when it is the Body mode.  
In Body mode, the display shows Hi when the temperature is higher than 109.2°F(42.9°C) |
**Explanation Of Symbols**

<table>
<thead>
<tr>
<th>Surface temp</th>
<th>Surface temperature mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>Body temperature mode</td>
</tr>
<tr>
<td>Room</td>
<td>Room temperature mode</td>
</tr>
<tr>
<td>°C</td>
<td>Celsius</td>
</tr>
<tr>
<td>°F</td>
<td>Fahrenheit</td>
</tr>
<tr>
<td>📣</td>
<td>Sound</td>
</tr>
<tr>
<td>⚰</td>
<td>Battery Low</td>
</tr>
<tr>
<td>📡</td>
<td>Memory</td>
</tr>
</tbody>
</table>

- **Surface temp**
  - 98.6°C: Lower than 89.6°F(32°C) in Body mode
  - 98.2°F: No higher than 99.1°F(37.3°C) Normal temperature in Body mode
  - 99.2°F ~ 100.3°F (37.4°C~37.9°C) Temperature to watch in Body mode
  - 101.5°F: Higher than 100.4°F(38.0°C) Fever in Body mode
  - 109.2°F: Higher than 109.2°F (42.9°C) in Body mode
<table>
<thead>
<tr>
<th>Symbol</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Trademark symbol]</td>
<td>Trade mark</td>
</tr>
<tr>
<td>![IEC symbol]</td>
<td>IEC 60417-5333, Type BF applied part</td>
</tr>
<tr>
<td>![Direct current symbol]</td>
<td>IEC 60417-5031 Direct current</td>
</tr>
<tr>
<td>![Instruction manual symbol]</td>
<td>Consult instruction manual for use</td>
</tr>
<tr>
<td>![Waste disposal symbol]</td>
<td>DISPOSAL: Do not dispose this product as unsorted municipal waste. Collection of such waste should be handled separately for special treatment.</td>
</tr>
<tr>
<td>![SN symbol]</td>
<td>Specifies serial number</td>
</tr>
</tbody>
</table>
5 Year Limited Warranty
Homewell Essentials products ("Homewell Essentials") warrants to you, the original purchaser of this new product, that the product shall be free of defects in the original manufacture of the material or workmanship for a period of five (5) years from the original date of your purchase of the product ("Warranty Period"). This product must be purchased from an authorized dealer of Homewell Essentials brand products and packaged with this warranty statement. This warranty does not cover refurbished product.

What does this Warranty Cover?
During the Warranty Period, if the original manufacture of the material or workmanship of the product is determined to be defective by an authorized dealer, Homewell Essentials will (at its sole option): (1) repair the product with new or rebuilt parts; or (2) replace the product at no charge with new or rebuilt comparable products or parts. Products and parts replaced under this warranty become the property of Homewell Essentials and are not returned to you. If service of products or parts are required after the Warranty Period expires, you must pay all labor and parts charges. This warranty lasts as long as you own your Homewell Essentials product during the Warranty Period. Warranty coverage terminates if you sell or otherwise transfer the product.

How to Obtain Warranty Service?
Please call 1-805-383-0003 Monday through Friday, 8:30AM to 4:30PM PST.
You will be provided with a Return Merchandise Authorization (RMA) number and return instructions. Send Homewell Essentials product to:

Huntkey USA, Inc.
735 West Ventura Blvd., Suite B
Camarillo, CA 93010

Please include the RMA number prominently displayed on the shipping box and include your name, phone number and address with the product inside the box.

Where Is the Warranty valid?
This warranty is valid only to the original purchaser of the product in North America (United States, Canada and Mexico).

What does the Warranty not Cover?
This warranty does not cover:
• Cosmetic damage
• Damage due to acts of God, such as lightning strikes
• Accident
• Misuse
• Abuse
• Negligence
• Commercial use
• Modification of any part of the product
• Damage due to incorrect operation or maintenance
• Connection to an incorrect voltage supply
• Attempted repair by anyone other than a facility authorized by Homewell Essentials to service the product
• Products sold as is or with all faults
• Consumables, such as batteries
• Products where the factory applied serial number has been altered or removed

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Contact Homewell Essentials:
735 West Ventura Blvd., Suite B
Camarillo, CA 93010

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