12. Customer Service
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Email: service@buythermopro.com
Hours: Weekdays 8:00 AM- 6:00 PM EST

13. Manufacturer information
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Xixiang, Baoan, Shenzhen, P.R. China

ThermPro

Operating Manual
Infrared Ear & Forehead Thermometer

Model No.: ThremoPro TP-121

V20180914 EN
1. Introduction

EFT-161(T-121) measures the body temperature by receiving infrared energy radiation from the surface of objects. It contains both forehead temperature mode and ear temperature mode. The measurement result displays on the LCD screen. This thermometer is safe, easy to use, hygienic and accurate.

The infrared thermometer is intended for the measurement and monitoring of a human’s body temperature. This device can be operated by any individual of all ages in a variety of environments such as a doctor’s office or home.

2. Product Features

- Contact infrared measurement
- Three modes of measurement – Forehead, Ear and Object
- High quality, clear LED display with backlight
- Fever alarm (default alarm value is 100.4°F and above)
- Capacity of storing 20 sets of measurements
- Two units of measurement: Celsius and Fahrenheit
- Automatic shut-down and power saving design

3. Product Description

1. Protective Cover
2. Infrared probe
3. Start Button
4. LCD Display
5. Memory Button
6. Handle
7. Battery Cover
4. Display Icon Definition

<table>
<thead>
<tr>
<th>Icon definition</th>
<th>icon</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forehead/Object</td>
<td><img src="icon1.png" alt="Icon" /></td>
<td>Measure forehead or object temperature (protective cover must be placed on thermometer)</td>
</tr>
<tr>
<td>Measuring Mode</td>
<td><img src="icon2.png" alt="Icon" /></td>
<td>Measure ear temperature (protective cover must be removed from thermometer)</td>
</tr>
<tr>
<td>Units of Measurement</td>
<td><img src="icon3.png" alt="Icon" /></td>
<td>°F or °C; Celsius degree; Fahrenheit degree</td>
</tr>
<tr>
<td>Ambient Mode</td>
<td><img src="icon4.png" alt="Icon" /></td>
<td>Measure ambient temperature</td>
</tr>
<tr>
<td>Low battery Indicator</td>
<td><img src="icon5.png" alt="Icon" /></td>
<td>Indicates low battery</td>
</tr>
<tr>
<td>Protective Cap</td>
<td><img src="icon6.png" alt="Icon" /></td>
<td>Protective Cap is needed</td>
</tr>
<tr>
<td>Memory Symbol</td>
<td><img src="icon7.png" alt="Icon" /></td>
<td>View the last 20 measurements recorded</td>
</tr>
</tbody>
</table>

5. Function keys

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start Button</td>
<td>Press to take measurement</td>
</tr>
<tr>
<td>Memory Button</td>
<td>Press to scroll through the last 20 measurements saved in the memory</td>
</tr>
<tr>
<td></td>
<td>Press and hold to change between °F / °C</td>
</tr>
</tbody>
</table>

6. Replacing the Batteries

1. Release the battery cover by gently sliding it down.
2. Remove the battery cover.
3. Replace both AAA batteries according to the polarity marked on the battery chamber.
4. Close the battery cover by sliding it up until you hear a click.

Important Information

- The thermometer will auto shut off after 30 second if left idle.
- When the measured temperature value is 100.4°F and above, the backlight will be red and beep. Any other value and the backlight will be green.
- When the measurement value is between 99.5-100.2°F, this is considered a
low fever, we advise you to consult a doctor.

- Keep the thermometer out of the reach of children.
- Measurement results cannot replace a physician’s diagnosis.
- Use the thermometer in a stable temperature environment. If moving the thermometer from an indoor to outdoor environment, please give the thermometer 30 minutes to adjust to the new environment before measuring.
- Don’t measure body temperature after measuring an extremely high or low temperature. Let the device rest for 10 minutes before taking another measurement.
- Try to avoid using the thermometer when you’re wet such as drying your hair, putting on skin cosmetics or sweating.

7. Measurement Methods

7.1 Forehead Measurement
To perform a head measurement:
1. Ensure the Protective Cover is kept in place, so the thermometer is in Forehead Measuring Mode.
2. Aim the Infrared Probe at the temple and press the Start button, you will begin to hear ticking.
3. Move the probe across the forehead to the other temple, keeping contact with the forehead always.
4. Release the Start button as soon as the probe is at the other temple, a beep will be heard and the temperature will be displayed.

7.2 Ear Measurement
1. Remove the Protective Cover to expose the Infrared Probe and ensure the device is in ear measuring mode.
2. For adults, pull the ear backward and upward with your free hand to straighten the ear canal.
3. Gently insert the Infrared Probe into the ear canal.
4. Ensure that the Infrared Probe is aimed directly toward the eardrum.
5. If the ear canal is not straightened, inaccurate readings may result.
6. For children between 6 and 12 months old, pull the outer ear straight backward.
7. Press the START button once to take the measurement.
8. A beep indicates that the measurement has been taken and the thermometer may be removed from the ear.
9. Look at the display to read the temperature.
10. Clean the Infrared Probe.

⚠️ Warning!
Don’t push hard into the ear to avoid hurting the eardrum.

7.3 Object Measurement
1. Take the Protective Cover off the Infrared Probe and point the probe towards the object, keeping the probe 3~5mm away from the object.
2. Press the Start button to begin taking measurement, when the thermometer beeps, the temperature will display on the screen.
Note, ensure that the Protective Cover is removed, and the thermometer is in Ear and Object Mode.

7.4 Ambient Measurement
1. Take off the Protective Cover and the unit will enter Ambient Mode.
2. Point the probe to the air and press the Start button.

Memory Mode
Each time a successful measurement is performed, the measurement data is stored in the thermometer memory. The memory of this thermometer has a capacity of 20 measurements. To retrieve stored measurements, follow these instructions:
Press the Memory button to scroll through the 20 stored measurements.
Note, Stored measurements will be deleted if batteries are removed.

Silent Mode
Press and hold the M button for 4 seconds until a beep is heard to enter silent mode. Once a beep is heard, the thermometer will no longer issue an alarm. Repeat the same steps to unmute the alarm.

Unit of Measurement Selection - °F or ºC
1. Ensure that the thermometer display is off. If the display is not dark, leave the buttons untouched for 10 seconds.
2. Press and hold the Memory button for 6 seconds until the display shows "--- "F" or "--- "C".
3. Release the Memory button once the displays shows the above and press the button again to switch the unit of measurement.
4. Wait 5 seconds for the thermometer to save the settings and shut itself down before using again.
Note: The default temperature unit is “F”. The setting will revert back to the default when uninstalling the batteries.

8. Cleaning
Please keep the inner cavity of the covers and probes clean, otherwise it will affect the measuring accuracy.

Cleaning methods:
1. The device only needs cleaning that can be decided according to the user.
2. Surface cleaning: use a clean soft cloth moistened with water to wipe the dirt.
3. Probe and cover cleaning: use a clean soft cloth or cotton swab dipped with a little medical alcohol and gently wipe the probe at the tip of the probe or inside the covers.
4. This thermometer is not waterproof. Do not immerse or expose to water or any other liquid other than a slightly damp cloth.
### 9. Troubleshooting

<table>
<thead>
<tr>
<th>Diagnosis</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The screen shows &quot;Lo&quot; or &quot;Hi&quot;</td>
<td>1. Check the measurement object. Unit is unable to measure forehead hair, sweating, etc.</td>
</tr>
<tr>
<td></td>
<td>2. Environment changes will greatly influence the measurement. Drastic temperature environment</td>
</tr>
<tr>
<td></td>
<td>changes will cause the thermometer to be unable to read. It's better to use after 10</td>
</tr>
<tr>
<td></td>
<td>minutes after a drastic environment change.</td>
</tr>
<tr>
<td></td>
<td>3. The measured body temperature is higher than 109.2°F or lower than 89.6°F.</td>
</tr>
<tr>
<td>The screen shows &quot;Er1&quot;</td>
<td>The environment temperature has exceeded the normal working range which is 60.8°F to 95°F (16°C</td>
</tr>
<tr>
<td></td>
<td>~ 35°C.</td>
</tr>
<tr>
<td>Buttons have no response</td>
<td>Uninstall and reinstall batteries</td>
</tr>
<tr>
<td>No display or abnormal display</td>
<td>Uninstall and reinstall batteries</td>
</tr>
</tbody>
</table>

### 10. Technical parameters

<table>
<thead>
<tr>
<th>Measurement method</th>
<th>Contact-Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement mode</td>
<td>Body Mode 89.6°F<del>109.2°F(32.0°C</del>42.9°C)</td>
</tr>
<tr>
<td></td>
<td>Surface Mode 32°F<del>212°F(0°C</del>100°C)</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>Body Mode ± 0.3°C(0.54°F)</td>
</tr>
<tr>
<td></td>
<td>Surface Mode ± 1.0°C(1.8°F)</td>
</tr>
<tr>
<td>Display resolution</td>
<td>0.1°F/°C</td>
</tr>
<tr>
<td>Operating environment</td>
<td>60.8°F to 95°F(16°C~35°C) ≤ 85% moisture condensation</td>
</tr>
<tr>
<td>Storage condition</td>
<td>-13°F to 131°F(-25°C~55°C)≤ 90% moisture condensation</td>
</tr>
<tr>
<td>Power supply</td>
<td>DC1.5V×2</td>
</tr>
<tr>
<td>Power consumption</td>
<td>When off ≤ 10 uw</td>
</tr>
<tr>
<td>Auto power-off</td>
<td>When measuring ≤ 30 mw</td>
</tr>
<tr>
<td></td>
<td>30 seconds</td>
</tr>
<tr>
<td>Weight</td>
<td>About 72 g (without battery)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>70.6mm * 55 mm *153mm (length x width x height)</td>
</tr>
</tbody>
</table>

### 11. Warranty Information

ThermoPro warrants this product to be free of defects in parts, materials and workmanship for a period of one year, from date of purchase.

REGISTER your product after purchase and RECEIVE EXTENDED 3 YEARS Warranty on our website: https://itronicsmall.com/pages/warranty-registration

Should any repair or service under this warranty be required, please contact Customer Service by phone or email for instructions on how to pack and ship the product back to ThermoPro.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.