

## CONTEC TP500

# CONTEC TP500(LED) Non-Contact Infrared Thermometer User Manual

Model: TP500 | Brand: CONTEC

## 1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation of the CONTEC TP500(LED) Non-Contact Infrared Thermometer. This device is designed for accurate and rapid temperature measurement without physical contact, suitable for infants, children, and adults. Please read this manual thoroughly before use and retain it for future reference.



Figure 1: CONTEC TP500(LED) Non-Contact Infrared Thermometer.

## 2. SAFETY INFORMATION

- Do not immerse the thermometer in water or other liquids.

- Keep the device away from direct sunlight, extreme temperatures, and high humidity.
- Avoid dropping the device or subjecting it to strong impacts.
- Do not attempt to disassemble or repair the device yourself. Contact customer support if service is required.
- Keep batteries out of reach of children. Dispose of used batteries properly according to local regulations.
- This device is intended for household use. Consult a medical professional for any health concerns or persistent fever.
- Ensure the measurement probe is clean before each use to maintain accuracy and hygiene.

### 3. PRODUCT FEATURES

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- **Non-Contact Measurement:** Measures temperature without physical contact, reducing discomfort and potential cross-contamination.
- **Precise Infrared Probe:** Utilizes an advanced infrared sensor for accurate and rapid temperature readings within 1 second.
- **Large LED Display:** Clear and easy-to-read LED display, visible even in low light conditions or at night.
- **Memory Function:** Stores up to 30 groups of measurement values, allowing for easy tracking of temperature trends.
- **Fever Warning:** Intelligent sound and light prompts indicate different temperature levels (normal, low fever, high fever) for quick assessment.
- **Automatic Shutdown:** Device automatically turns off after 5 seconds of inactivity to conserve battery life.
- **Unit Conversion:** Easily switch between Celsius (°C) and Fahrenheit (°F) as preferred.
- **Low Battery Indicator:** Alerts the user when batteries need replacement.



## 4. SETUP

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### 4.1 Battery Installation

1. Locate the battery compartment cover on the handle of the thermometer.
2. Slide or open the cover according to the indicator marks.
3. Insert two "AAA" batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely until it clicks into place.

*Note: The package does not contain batteries. Please use two new "AAA" batteries for optimal performance.*

## 5. OPERATING INSTRUCTIONS

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### 5.1 Taking a Measurement

1. Ensure the thermometer is clean and dry.
2. Press the power button to turn on the device. The LED display will light up.
3. Position the thermometer 1-3 cm (approximately 0.4-1.2 inches) from the center of the forehead.  
Ensure there is no hair, sweat, or cosmetics obstructing the measurement area.
4. Press the measurement button (trigger) once. The temperature reading will appear on the LED display within 1 second.
5. The device will provide sound and light prompts based on the measured temperature.
6. The measurement will be automatically saved to the device's memory.

1. Turn on the thermometer.
2. Long press the "M" (Memory) button to enter the memory interface.
3. While in the memory interface, long press and hold the "M" button again to enter the setting mode.
4. Press the "M" button briefly to toggle between Celsius (°C) and Fahrenheit (°F).
5. Once your desired unit is displayed, release the button. The setting will be saved automatically.

# Product parameters



Figure 4: Celsius and Fahrenheit unit conversion.

## 5.3 Memory Function

The CONTEC TP500(LED) thermometer automatically stores the last 30 temperature readings. To view past measurements:

1. Turn on the thermometer.
2. Briefly press the "M" (Memory) button to cycle through the stored readings. Each press will display the next stored value.

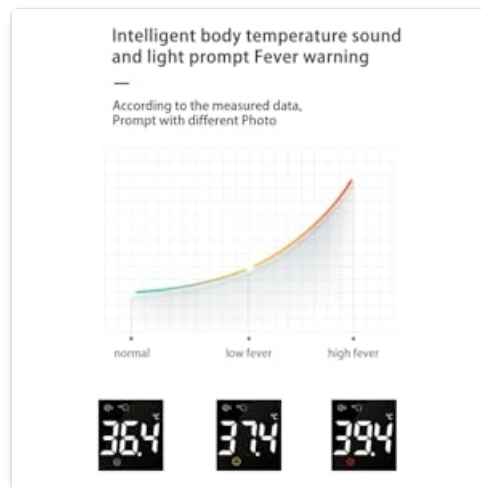


Figure 5: Memory function displaying temperature trends.

## 6. MAINTENANCE

### 6.1 Cleaning

- Wipe the thermometer body with a soft, slightly damp cloth.
- For the infrared probe, gently clean with a cotton swab lightly moistened with 70% isopropyl alcohol. Allow it to dry completely before use.
- Do not use abrasive cleaners, solvents, or immerse the device in water.

### 6.2 Storage

- Store the thermometer in a cool, dry place, away from direct sunlight, extreme temperatures, and high humidity.
- If the device will not be used for an extended period (e.g., more than one month), remove the batteries to prevent leakage and potential damage.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not turn on.	Batteries are dead or incorrectly inserted.	Replace batteries with new "AAA" batteries, ensuring correct polarity.
Inaccurate readings.	Measurement distance too far or too close; dirty probe; environmental interference.	Ensure correct measurement distance (1-3 cm). Clean the infrared probe. Avoid measuring in areas with strong drafts or extreme temperature changes.
Cannot switch temperature units.	Incorrect button sequence.	Follow the steps in section 5.2 carefully: Turn on, long press 'M' to memory, then long press 'M' again to setting mode, brief press 'M' to toggle.

Problem	Possible Cause	Solution
Display shows "Lo" or "Hi".	Temperature is outside the measurable range.	Ensure the thermometer is used within its specified operating temperature range. If measuring body temperature, ensure proper placement and that the subject's temperature is within the human body temperature range.

## 8. SPECIFICATIONS

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- **Model:** TP500
- **Measurement Method:** Non-contact Infrared
- **Measurement Distance:** 1-3 cm
- **Display:** LED
- **Memory Storage:** 30 groups
- **Automatic Shutdown:** 5 seconds
- **Power Source:** 2 x AAA batteries (not included)
- **Battery Life:** Approximately 600 measurements
- **Special Features:** Low Battery Indicator, Fever Warning
- **Material:** Plastic
- **Color:** White
- **Dimensions:** Approximately 162mm (Height) x 113mm (Length) x 51mm (Width)



## LED Big Sceen

Clear display, easy to use without lights at night

Figure 6: Product dimensions.

## 9. WARRANTY AND SUPPORT







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The CONTEC TP500(LED) Non-Contact Infrared Thermometer comes with a one-year warranty from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. For warranty claims, technical support, or any questions regarding the product, please contact CONTEC customer service. You can typically find contact information on the product packaging or through the official CONTEC website.

For purchases made on Amazon, you may also contact the seller, CONTEC, directly through your Amazon order history for assistance.

### Related Documents - TP500



	<p><a href="#">Contec Infrared Thermometer Quick User Guide</a></p> <p>A quick user guide for the Contec Infrared Thermometer (Model TP500), detailing setup, usage, memory review, and important user considerations for accurate temperature measurements.</p>
	<p><a href="#">Contec CMS1600B Color Doppler Ultrasound Diagnostic System User Manual</a></p> <p>This user manual provides comprehensive instructions for the Contec CMS1600B, a wireless handheld color Doppler ultrasound diagnostic system. It covers device operation, software functions, safety precautions, maintenance, and troubleshooting for healthcare professionals.</p>
	<p><a href="#">Contec SP80B Spirometer User Manual and Technical Guide</a></p> <p>Comprehensive user manual for the Contec SP80B Spirometer, detailing operation, safety guidelines, technical specifications, maintenance, and troubleshooting for lung function testing.</p>
	<p><a href="#">Contec CMS50D1 Fingertip Pulse Oximeter User Manual and Specifications</a></p> <p>Comprehensive user guide for the Contec CMS50D1 fingertip pulse oximeter, detailing its features, operation, maintenance, troubleshooting, and technical specifications for SpO2 and pulse rate monitoring.</p>
	<p><a href="#">Contec CMS60D1 Pulse Oximeter User Manual</a></p> <p>User manual for the Contec CMS60D1 Pulse Oximeter, detailing its features, operation, specifications, and safety precautions for measuring pulse oxygen saturation and pulse rate.</p>
	<p><a href="#">Contec CMS50S+ Pulse Oximeter User Manual</a></p> <p>User manual for the Contec CMS50S+ Pulse Oximeter, detailing its features, operation, maintenance, and specifications for measuring SpO2 and pulse rate.</p>