

ThermoPro TP210B

ThermoPro TP210B Wireless Refrigerator/Freezer Thermometer User Manual

Model: TP210B

1. INTRODUCTION

Thank you for purchasing the ThermoPro TP210B Wireless Refrigerator/Freezer Thermometer. This device is designed to help you monitor the temperature of your refrigerator and freezer wirelessly, ensuring your food is stored at optimal temperatures. With a strong 500ft/150m wireless range and customizable alarms, you can easily keep track of temperature fluctuations.

2. PACKAGE CONTENTS

- 1 x Receiver Unit
- 1 x Transmitter Unit
- 2 x AAA Batteries (for Receiver)
- 1 x USB Charging Cable (for Transmitter)
- 1 x User Manual

3. KEY FEATURES

- **Extended Wireless Range:** Up to 500ft/150m using advanced RF technology for stable connection.
- **Pre-Paired for Immediate Use:** No complex setup required; units are pre-paired from the factory.
- **Wide Measurement Range:** Accurate readings within $\pm 0.9^{\circ}\text{F}$ across -40°F to 158°F (-40°C to 70°C).
- **Smart Temperature Alerts:** Customizable high/low temperature limits with audio-visual alarms.
- **Easy-to-Read Backlit Display:** Shows fridge and freezer readings, Max/Min records, and low-battery status.
- **Considerate Power Design:** Receiver uses AAA batteries, transmitter features a rechargeable lithium battery.
- **Flexible Placement Options:** Receiver has hook, stand, or magnet; transmitter has clip or stand.

4. SETUP

4.1. Receiver Battery Installation

1. Open the battery compartment on the back of the receiver unit.
2. Insert 2 AAA batteries, ensuring correct polarity (+/-).
3. Close the battery compartment securely.

Note: The receiver requires 2 AAA batteries, which are included in the package.

4.2. Transmitter Charging

1. Locate the charging port on the transmitter unit.
2. Connect the provided USB charging cable to the transmitter and a standard USB power source (e.g., wall adapter, computer USB port).
3. Allow the transmitter to charge fully before first use. The charging indicator will change when fully charged.

Note: The transmitter uses a rechargeable lithium battery designed for low-temperature environments.

4.3. Initial Pairing (Pre-Paired)

The ThermoPro TP210B units are pre-paired at the factory. Simply power on both the receiver and transmitter, and they should automatically connect. If connection issues occur, refer to the Troubleshooting section.

4.4. Placement



Image: ThermoPro TP210B Receiver and Transmitter. The receiver displays temperatures, while the transmitter sends data from inside the appliance.

Receiver Placement:

- Use the integrated stand to place it on a countertop.
- Utilize the magnetic back to attach it to a metallic surface.
- Hang it using the hook on the back.
- Place the receiver in a location where you can easily view the display and hear alarms, within the 500ft/150m range of the transmitter.

Transmitter Placement:

- Place the transmitter inside your refrigerator or freezer.
- Use the integrated clip to attach it to a shelf or rack.
- Ensure the transmitter is not obstructed by large items that could block the wireless signal.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

- Press the **POWER** button on both the receiver and transmitter to turn them on or off.

5.2. Reading Temperatures

- The receiver's backlit LCD display will show the current temperature from the transmitter.
- The display typically shows both the current temperature and the all-time Max/Min records.

5.3. Setting Temperature Alarms

The TP210B allows you to set custom high and low temperature limits for alerts.

1. Press the **ALERT** button on the receiver. The high limit will flash.
2. Use the **UP** or **DOWN** buttons to adjust the high temperature limit.
3. Press **ALERT** again to confirm the high limit and move to the low limit setting.
4. Use the **UP** or **DOWN** buttons to adjust the low temperature limit.
5. Press **ALERT** a third time to confirm the low limit and exit alarm setting mode.

When the temperature exceeds the set range, the receiver will emit an audio-visual alarm.

5.4. Max/Min Temperature Records

- The receiver automatically records the maximum and minimum temperatures detected since the last reset.
- Press the **MAX/MIN** button to cycle through current, maximum, and minimum temperature readings.
- To reset the Max/Min records, press and hold the **MAX/MIN** button for 3 seconds while viewing the Max/Min display.

5.5. Backlight

- The receiver features a bright backlit display for easy reading in low-light conditions.
- The backlight will activate automatically when a button is pressed and will turn off after a short period of inactivity to conserve battery.

6. MAINTENANCE

6.1. Cleaning

- Wipe the units with a damp cloth. Do not immerse in water.
- Do not use abrasive cleaners or solvents.

6.2. Battery Replacement (Receiver)

- When the low battery indicator appears on the receiver display, replace the 2 AAA batteries.
- Ensure proper polarity when inserting new batteries.

6.3. Transmitter Charging

- Recharge the transmitter's lithium battery when the low battery indicator appears.
- Use the provided USB charging cable.

6.4. Storage

- If storing the device for an extended period, remove the AAA batteries from the receiver.
- Store in a dry place away from extreme temperatures.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No temperature reading / "---" displayed	Transmitter not powered on, out of range, or low battery.	<ul style="list-style-type: none"> ◦ Ensure both receiver and transmitter are powered on. ◦ Move receiver closer to the transmitter. ◦ Check and replace receiver batteries or recharge transmitter. ◦ Re-pair units if necessary (power off both, then power on).
Inaccurate temperature readings	Sensor obstruction, extreme environmental conditions, or sensor malfunction.	<ul style="list-style-type: none"> ◦ Ensure the transmitter's sensor is not directly touching ice or walls. ◦ Verify the temperature range of the device (-40°F to 158°F). ◦ Contact customer support if issues persist.
Alarms not sounding	Alarm limits not set correctly or alarm function disabled.	<ul style="list-style-type: none"> ◦ Review and adjust high/low alarm limits as per section 5.3. ◦ Ensure the alarm icon is visible on the display.
Transmitter battery drains quickly	Operating in extremely low temperatures or frequent signal transmission.	<ul style="list-style-type: none"> ◦ While the transmitter battery is designed for low temperatures, extreme cold can reduce battery life. ◦ Ensure the transmitter is fully charged before deployment. ◦ If the issue persists, contact customer support.

8. SPECIFICATIONS

- **Temperature Range:** -40°F to 158°F (-40°C to 70°C)
- **Temperature Accuracy:** ±0.9°F (±0.5°C)
- **Wireless Range:** Up to 500ft (150m) in open air
- **Transmission Frequency:** 433 MHz
- **Receiver Power:** 2 x AAA batteries (included)
- **Transmitter Power:** Rechargeable Lithium battery (included, with USB charging cable)
- **Display:** Backlit LCD
- **Dimensions (Receiver):** Approximately 4.33 inches (length)
- **Weight (Item):** Approximately 11.2 ounces

9. WARRANTY & SUPPORT

ThermoPro provides a warranty for this product against defects in materials and workmanship. For detailed warranty information, product registration, or technical support, please visit the official ThermoPro website or contact their customer service directly.

Official Website: www.thermopro.com

Customer Support: Refer to the contact information provided on the ThermoPro website or product packaging.