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ThermoPro TP210B

ThermoPro TP210B Wireless Freezer Fridge Thermometer User Manual

MODEL: TP210B



Image: The ThermoPro TP210B system, featuring a central receiver unit with a large digital display and two compact wireless transmitter units.

1. Introduction

The ThermoPro TP210B is a wireless thermometer system designed to monitor temperatures in refrigerators and freezers. It provides real-time temperature readings from up to two remote sensors to a central receiver unit. This system features a 500 ft (150 m) wireless range, high accuracy, and customizable temperature alerts to help maintain optimal storage conditions for food and other temperature-sensitive items.

Key features include:

- **Extended Wireless Range:** Up to 500 ft (150 m) using updated RF technology for stable connection.
- **Pre-Paired for Immediate Use:** No complex setup required; units are ready to operate upon powering on.
- **Wide Measurement Range:** Accurate readings from -40°F to 158°F (-40°C to 70°C).
- **Smart Temperature Alerts:** Customizable high/low temperature alarms on the receiver.
- **Backlit LCD Display:** Clear display of current, maximum, and minimum temperatures, visible day or night.
- **Rechargeable Transmitter:** Transmitter uses a rechargeable lithium battery, suitable for low-temperature environments.
- **Flexible Placement:** Multiple mounting options for both receiver and transmitters.

2. Package Contents

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

3. Product Diagram

Familiarize yourself with the components of your ThermoPro TP210B system:



Image: The main receiver unit with its large display and control buttons (MODE, UP, DOWN, HISTORY/CLEAR, LIGHT °F/°C), alongside two smaller transmitter units.

Receiver Unit:

- **LCD Display:** Shows temperatures for both channels, Max/Min records, and battery status.
- **MODE Button:** Cycles through settings and alarm modes.
- **UP/DOWN Buttons:** Adjust values in settings or alarm modes.
- **HISTORY/CLEAR Button:** Views and clears Max/Min temperature records.
- **LIGHT °F/°C Button:** Activates backlight and switches temperature units.
- **Battery Compartment:** Located on the back, for 2x AAA batteries.

Transmitter Units:

- **Temperature Sensor:** Measures ambient temperature.
- **LED Indicator:** Flashes to indicate data transmission.
- **Power Button:** Turns the transmitter on/off.
- **Charging Port:** USB-C port for recharging the internal lithium battery.

4. Setup

The ThermoPro TP210B units are pre-paired at the factory. Follow these steps for initial setup:

1. **Install Receiver Batteries:** Open the battery compartment on the back of the receiver unit. Insert 2 AAA batteries, ensuring correct polarity (+/-). Close the compartment.
2. **Charge Transmitters:** Connect the provided USB charging cable to the charging port on each transmitter unit and to a standard USB power source (e.g., phone charger, computer USB port). The LED indicator will show charging status. Charge fully before first use.
3. **Power On Transmitters:** Press and hold the power button on each transmitter unit until the LED indicator flashes.
4. **Verify Connection:** The receiver unit should automatically display temperature readings from both transmitters. If not, refer to the Troubleshooting section for re-pairing instructions.



Image: A close-up view illustrating the battery installation for the receiver unit and the USB charging process for a transmitter unit.

5. Operating Instructions

5.1 Display Overview

The receiver's LCD displays the following information:

EASY TO READ

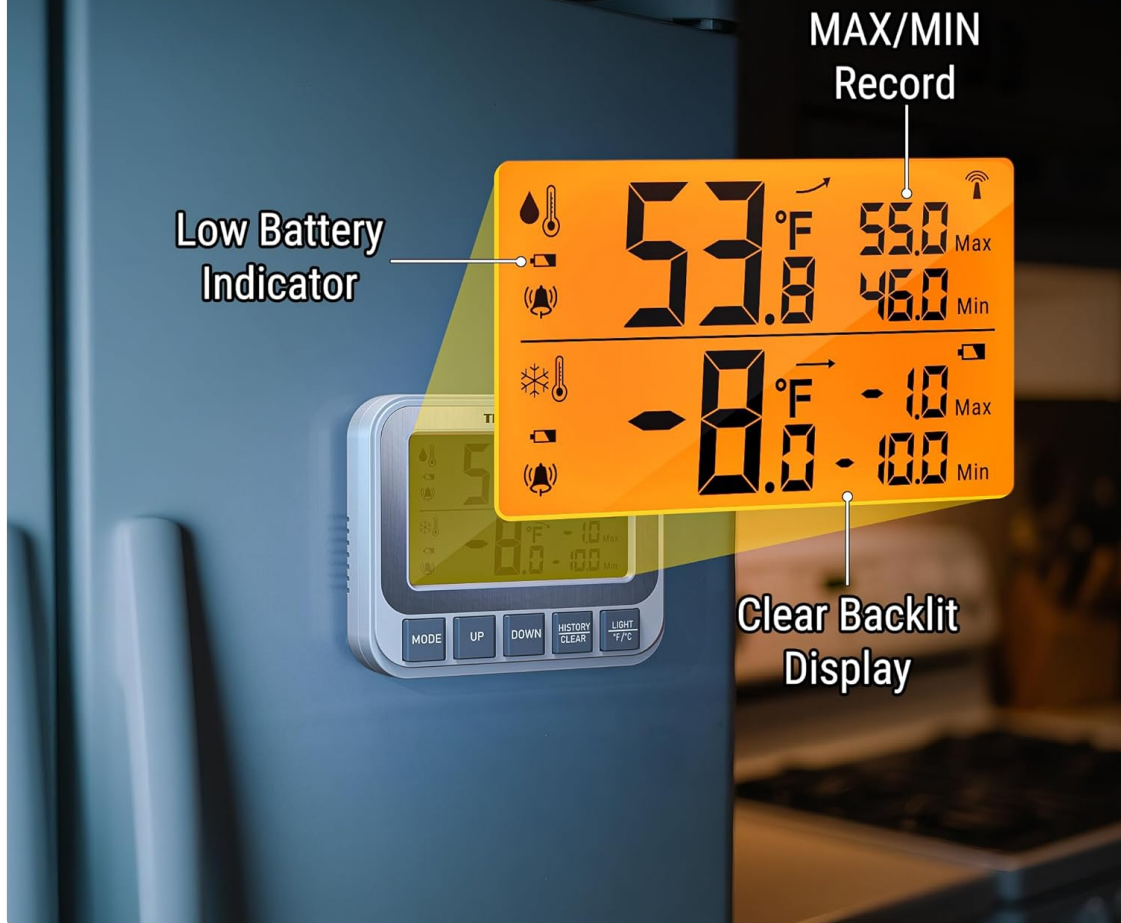


Image: The receiver's digital display, highlighting the current temperature readings for two channels, along with their respective maximum and minimum recorded temperatures and low battery indicators.

- **Channel 1 Temperature:** Typically for the refrigerator.
- **Channel 2 Temperature:** Typically for the freezer.
- **Max/Min Records:** Highest and lowest temperatures recorded since the last reset.
- **Low Battery Indicator:** Appears when receiver or transmitter batteries are low.
- **Signal Strength Indicator:** Shows connection status to transmitters.

5.2 Temperature Unit Selection (°F/°C)

To switch between Fahrenheit (°F) and Celsius (°C), press the **LIGHT °F/°C** button on the receiver unit.

5.3 Setting Temperature Alerts

The system allows you to set custom high and low temperature limits for each channel. An audible and visual alarm will activate if the temperature exceeds these limits.

PRESET TEMPERATURE ALERT

Protect Your Food



Image: The receiver unit showing an active alarm, with a visual representation of a refrigerator door left open and a transmitter inside, illustrating a scenario where a temperature alert would be triggered.

1. Press the **MODE** button once to enter the alarm setting mode for Channel 1 (refrigerator). The high limit will flash.
2. Use the **UP** or **DOWN** buttons to adjust the desired high temperature limit.
3. Press **MODE** again to set the low limit for Channel 1. Adjust with **UP** or **DOWN**.
4. Press **MODE** a third time to enter the alarm setting mode for Channel 2 (freezer). Repeat steps 2 and 3 for Channel 2.
5. Press **MODE** again to exit alarm setting mode. The alarm icon will appear next to the channel if an alarm is active.

5.4 Viewing and Clearing Max/Min Records

The receiver automatically records the maximum and minimum temperatures for each channel since the last reset.

- Press the **HISTORY/CLEAR** button once to view the maximum recorded temperatures for both channels.
- Press **HISTORY/CLEAR** again to view the minimum recorded temperatures for both channels.
- To clear the Max/Min records, press and hold the **HISTORY/CLEAR** button for 3 seconds while viewing the records. The display will reset to current temperatures.

5.5 Placement Guidelines

Optimal placement ensures accurate readings and reliable wireless communication.

MULTIPLE MOUNTING OPTIONS

Receiver



Magnetic Mount



Table Stand



Hanging

Transmitter



Stand



Clip

Image: A visual guide demonstrating the versatility of the ThermoPro TP210B, showing the receiver magnetically attached to a fridge, standing on a table, and hanging from a hook, while transmitters are shown standing on a shelf and clipped to a rack inside a fridge.

- **Receiver Placement:** The receiver can be placed on a countertop using its integrated stand, mounted magnetically to a metal surface (e.g., refrigerator exterior), or hung on a wall using the hanging hole. Position it within 500 ft (150 m) of the transmitters, minimizing obstructions.
- **Transmitter Placement:** Place transmitters inside the refrigerator and freezer compartments. They can stand on a shelf or clip onto a rack. Ensure they are not directly exposed to cold air vents or heating elements, which could affect accuracy.

STRONG SIGNAL WITH RF TECH

Easy Connection, Monitor Anywhere



Image: A diagram showing the wireless signal path from transmitters inside a refrigerator and freezer to a receiver unit located in another room, emphasizing the 500-foot range.

6. Maintenance

- **Cleaning:** Wipe the units with a damp cloth. Do not immerse in water or use abrasive cleaners.
- **Battery Replacement (Receiver):** When the low battery indicator appears for the receiver, replace the 2 AAA batteries.
- **Transmitter Charging:** When the low battery indicator appears for a transmitter, recharge it using the provided USB cable. A full charge ensures reliable operation, especially in low-temperature environments.
- **Storage:** If storing the device for an extended period, remove the AAA batteries from the receiver and ensure transmitters are fully charged before storage. Store in a dry, cool place.

7. Troubleshooting

- **No Temperature Readings / Lost Connection:**
 - Ensure both the receiver and transmitters are powered on.
 - Check battery levels for both units. Recharge or replace as needed.

- Move the receiver closer to the transmitters. Walls, metal appliances, and electronic devices can interfere with the wireless signal.
- **Re-pairing:** If connection is lost, try re-pairing. Power off all units. Power on the receiver. Then, power on each transmitter one by one. They should automatically reconnect.

- **Inaccurate Readings:**

- Ensure transmitters are not placed directly in front of cold air vents or near heat sources.
- Allow units to stabilize for 30 minutes after placement to get accurate readings.
- Compare readings with another known accurate thermometer if possible.

- **Alarm Not Sounding:**

- Verify that the high/low temperature limits are set correctly for each channel.
- Ensure the alarm function is enabled (check for the alarm icon on the display).

8. Specifications

Feature	Specification
Model Number	TP210B
Wireless Range	Up to 500 ft (150 m)
Temperature Accuracy	±0.9°F (±0.5°C) from 32°F-122°F (0°C-50°C), otherwise ±1.8°F (±1.0°C)
Measurement Range	-40°F to 158°F (-40°C to 70°C)
Receiver Power	2 x AAA Batteries (included)
Transmitter Power	Rechargeable Lithium Battery (charging cable included)
Display	Backlit LCD

9. Warranty Information

ThermoPro products are manufactured with high-quality materials and craftsmanship. This product is covered by a limited warranty against defects in materials and workmanship from the date of purchase. Please refer to the official ThermoPro website or contact customer support for specific warranty terms and conditions.

10. Support


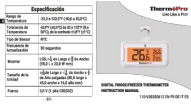
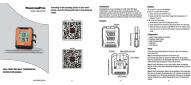

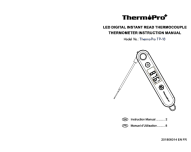

For any questions, assistance, or troubleshooting not covered in this manual, please contact ThermoPro Customer Service:

- **Website:** Visit the official ThermoPro website for FAQs, product registration, and contact information.
- **Email:** Refer to your product packaging or the ThermoPro website for the customer support email address.

- **Phone:** Contact the customer support hotline if available in your region.

Please have your model number (TP210B) and purchase date ready when contacting support.

Related Documents - TP210B

	<p>ThermoPro Wireless Fridge/Freezer Thermometer Instruction Manual</p> <p>User manual for the ThermoPro wireless fridge/freezer thermometer, detailing setup, features, alarm settings, and specifications for monitoring temperatures in refrigerators and freezers.</p>
	<p>ThermoPro TP110 Digital Fridge/Freezer Thermometer Instruction Manual</p> <p>Official instruction manual for the ThermoPro TP110 Digital Fridge/Freezer Thermometer. Learn about features, specifications, usage, safety, warranty, and customer support.</p>
	<p>ThermoPro TP922 Digital Food Thermometer User Manual</p> <p>Comprehensive user manual for the ThermoPro TP922 digital food thermometer, covering setup, operation, features, specifications, and troubleshooting for accurate cooking temperatures.</p>
	<p>ThermoPro TP-15H Digital Instant Read Thermometer: User Manual & Features</p> <p>Comprehensive instruction manual for the ThermoPro TP-15H digital instant read food thermometer. Learn about its features, specifications, how to use it for cooking, calibration, care, and warranty.</p>
	<p>ThermoPro TP-18 Digital Instant Read Thermocouple Thermometer Instruction Manual</p> <p>Instruction manual for the ThermoPro TP-18 digital instant read thermocouple thermometer, covering product features, specifications, usage, calibration, care, warranty, and customer service.</p>
	<p>TempSpike Wireless Bluetooth Meat Thermometer User Manual</p> <p>Comprehensive user manual for the TempSpike Wireless Bluetooth Meat Thermometer, covering setup, features, usage, safety precautions, and warranty information. Includes instructions in German, French, and Italian.</p>