

ThermoPro TP211B

ThermoPro Waterproof Wireless Pool Thermometer User Manual

Model: TP211B

1. INTRODUCTION

The ThermoPro TP211B is a waterproof wireless pool thermometer designed for easy and accurate monitoring of water temperature in various environments. This digital thermometer provides convenient remote temperature readings, eliminating the need for manual checks. It is suitable for swimming pools, hot tubs, cold plunges, ice baths, ponds, and aquariums.

Key features include a durable IPX8 waterproof sensor, high accuracy, extended wireless range, and a large, backlit display with 24-hour max/min temperature memory. The device also offers a comfort indicator to help determine optimal water conditions.

2. PACKAGE CONTENTS

- 1 x Receiver
- 1 x Transmitter
- 1 x Rope
- 4 x AAA Batteries
- 1 x User Manual

3. PRODUCT OVERVIEW

The ThermoPro TP211B system consists of two main units: a floating transmitter (sensor) and an indoor receiver unit. The transmitter measures the water temperature and wirelessly sends the data to the receiver.



Figure 3.1: ThermoPro TP211B Wireless Pool Thermometer (Receiver and Transmitter)

This image displays the complete ThermoPro TP211B system, featuring the indoor receiver unit on the left and the floating water temperature transmitter on the right. Both units are white with blue accents and digital displays.

3.1. Transmitter (Floating Unit)

- **IPX8 Waterproof:** Designed to withstand continuous immersion in water.
- **High-Precision Sensor:** Provides accurate temperature readings.
- **Integrated Display:** Shows the current water temperature directly on the unit.
- **Rope Attachment Point:** Allows for securing the transmitter to prevent drifting.

MORE PRECISE SENSOR



ThermoPro

🎯 Accuracy

$\pm 0.9^{\circ}\text{F}$

🌡️ Sensor Temp

$-40 \sim 158^{\circ}\text{F}$

VS

OTHERS

🎯 Accuracy

4°F

🌡️ Sensor Temp

$30^{\circ}\text{F} \sim 120^{\circ}\text{F}$

VS

Figure 3.2: Transmitter Sensor Detail

This image provides a detailed view of the floating transmitter, highlighting its internal temperature sensor. The design emphasizes the exposed probe for more sensitive and accurate readings compared to enclosed probes.

3.2. Receiver (Indoor Unit)

- **Large Backlit LCD Display:** Easy to read temperature and humidity data, even in low light.
- **Indoor Temperature & Humidity:** Displays ambient conditions where the receiver is placed.
- **Water Temperature Display:** Shows the temperature from the floating transmitter.
- **24-Hour Max/Min Records:** Tracks highest and lowest temperatures and humidity over a 24-hour period.
- **Comfort Indicator:** Visually indicates if water temperature is Hot, Comfort, or Cool.
- **Multiple Placement Options:** Features a tabletop stand, wall mount hole, and magnet for versatile placement.

LARGE EASY-TO-READ DISPLAY

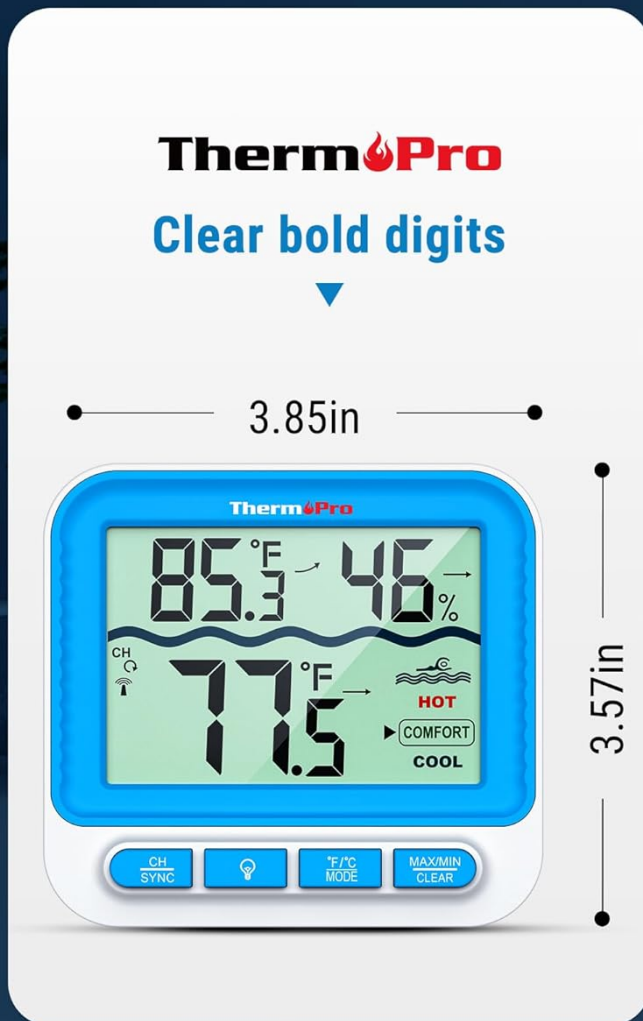


Figure 3.3: Receiver Display Features

This image illustrates the large, easy-to-read display of the ThermoPro receiver unit. It highlights the clear, bold digits for indoor temperature, humidity, and water temperature, along with the comfort and trend indicators.

4. SETUP

The ThermoPro TP211B is designed for hassle-free setup, with the transmitter and receiver pre-paired for immediate use. Follow these steps to get started:

1. Install Batteries in Transmitter:

Open the battery compartment of the floating transmitter. Insert 2 x AAA batteries, ensuring correct polarity (+/-). Close the compartment firmly, aligning the marks on the edges of the upper and lower parts to ensure IPX8 waterproof performance.

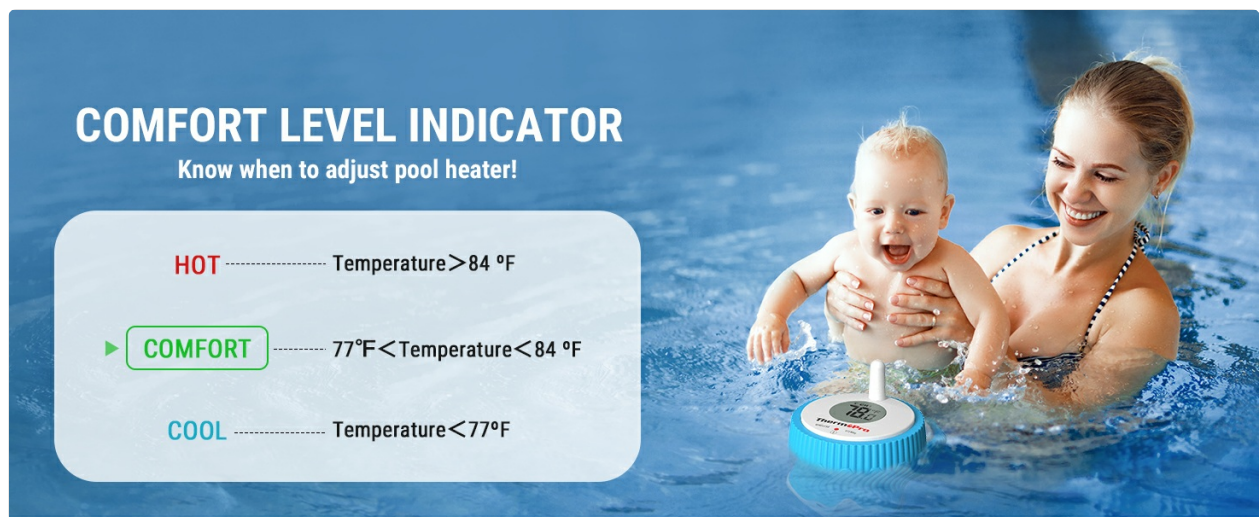


Figure 4.1: Transmitter Battery Installation and Sealing

This image shows the process of installing 2 AAA batteries into the floating transmitter and ensuring the unit is properly sealed by aligning the metal parts and alignment marks for waterproof integrity.

2. Install Batteries in Receiver:

Open the battery compartment on the back of the indoor receiver. Insert 2 x AAA batteries, observing correct polarity. Close the compartment.

3. Synchronization:

The transmitter and receiver are pre-paired. Once batteries are installed in both units, they should automatically synchronize. If synchronization does not occur, press and hold the "CH/SYNC" button on the receiver for 3 seconds to re-synchronize.

4. Placement of Transmitter:

Place the floating transmitter in the water body you wish to monitor (pool, hot tub, pond, etc.). You can use the included rope to secure it to a fixed point to prevent it from drifting into skimmers or other areas.

5. Placement of Receiver:

Place the receiver indoors in a cool, shaded location, away from direct sunlight or heat sources, to ensure accurate indoor temperature and humidity readings. The receiver offers three placement options:

- **Tabletop Stand:** Use the integrated stand to place it on a flat surface.
- **Wall Mount:** Utilize the hanging hole on the back to mount it on a screw.
- **Magnet:** The back of the receiver has a magnet for attachment to metallic surfaces like a refrigerator.

3 PLACEMENT OPTIONS



Tabletop Stand



Wall Mount



Magnet



Figure 4.2: Receiver Placement Options

This image demonstrates the three versatile placement options for the ThermoPro receiver: using its built-in tabletop stand, mounting it on a wall via a hanging hole, or attaching it to a magnetic surface.

5. OPERATING INSTRUCTIONS

5.1. Display Readings

The receiver's large LCD display provides the following information:

- **Indoor Temperature:** Top left, displays the ambient temperature at the receiver's location.
- **Indoor Humidity:** Top right, displays the ambient humidity at the receiver's location.
- **Water Temperature:** Large digits at the bottom, displays the temperature from the floating transmitter.
- **Temperature Trend Indicator:** Arrows next to temperature readings indicate rising, falling, or stable trends.
- **Comfort Indicator:** A visual icon (Hot, Comfort, Cool) indicates the water temperature comfort level.
- **Channel Select:** Indicates which transmitter channel is currently displayed (TP211B supports one transmitter).

COMFORT & TREND INDICATOR

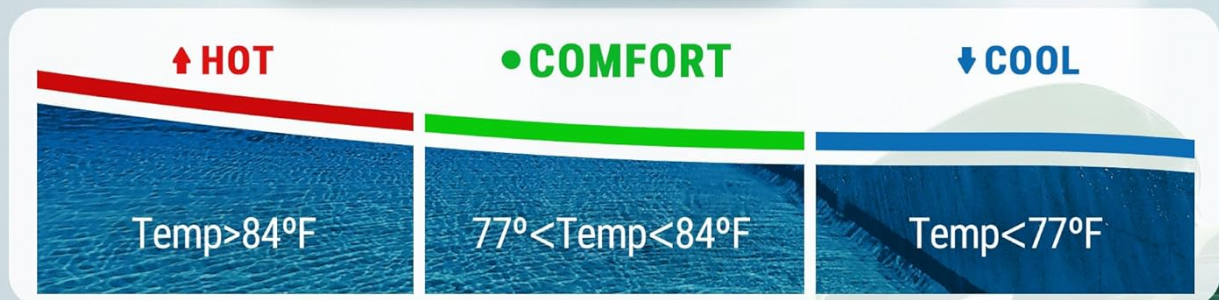
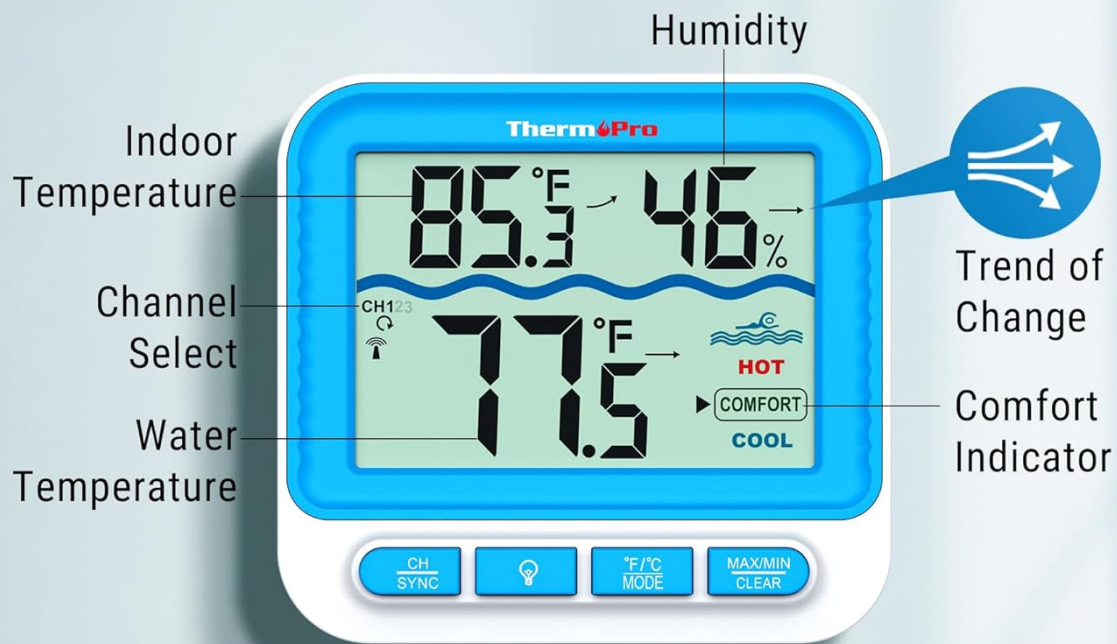


Figure 5.1: Detailed Display Layout

This image provides a detailed breakdown of the ThermoPro receiver's display, labeling each section including indoor temperature, humidity, water temperature, channel selection, trend indicators, and the comfort indicator.

5.2. Button Functions

• CH/SYNC Button:

- Press to switch between channels (if multiple transmitters were supported).
- Press and hold for 3 seconds to re-synchronize with the transmitter.

• Light Button:

- Press to activate the backlight for 10 seconds, improving readability in low light conditions.



Figure 5.2: Backlit Display in Low Light

This image demonstrates the large backlit LCD display of the ThermoPro receiver, showing how it provides clear visibility of temperature and humidity readings even in a dark environment, such as a bedroom at night.

- **°F/°C / MODE Button:**
 - Press to toggle between Fahrenheit (°F) and Celsius (°C) temperature units.
 - Press and hold to switch between Pool and Hot Tub modes, which adjusts the comfort indicator ranges.
- **MAX/MIN / CLEAR Button:**
 - Press to view the 24-hour maximum and minimum temperature and humidity records.
 - Press and hold to clear the 24-hour maximum and minimum records.

5.3. Comfort Level Indicator

The receiver provides a visual comfort indicator for the water temperature, helping you determine if the water is suitable for your activity:

- **HOT:** Temperature > 84°F (or equivalent in Celsius, depending on mode).
- **COMFORT:** Temperature between 77°F and 84°F (or equivalent in Celsius, depending on mode).
- **COOL:** Temperature < 77°F (or equivalent in Celsius, depending on mode).

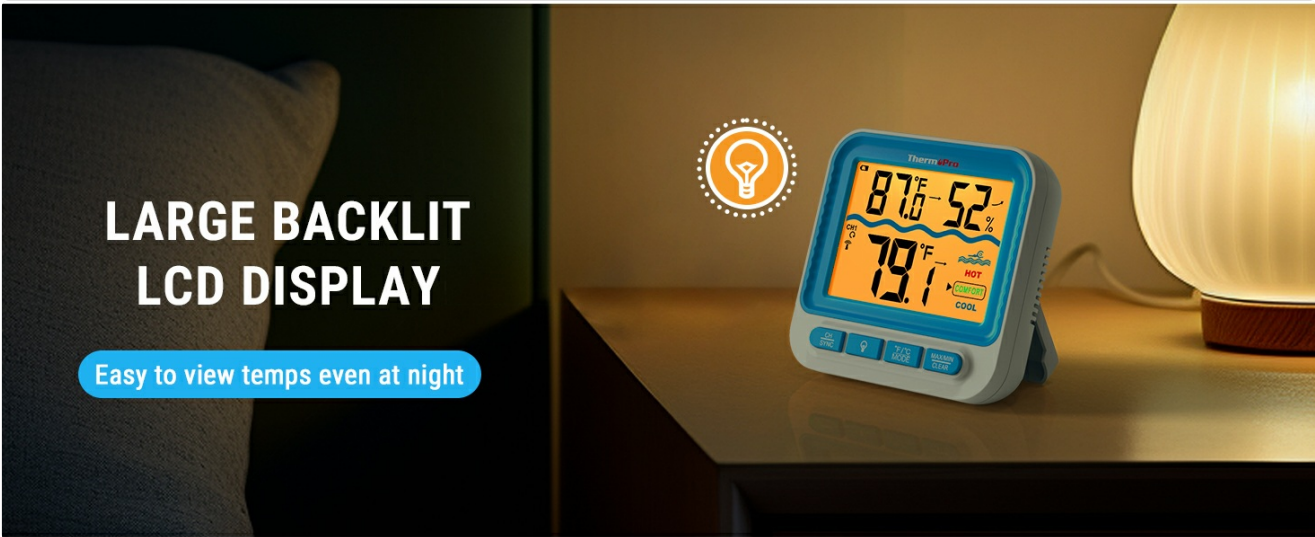


Figure 5.3: Water Comfort Levels

This image visually represents the comfort level indicator on the ThermoPro receiver, categorizing water temperatures into "Hot" (red), "Comfort" (green), and "Cool" (blue) zones, with corresponding temperature ranges.

6. MAINTENANCE

- **Battery Replacement:** Replace batteries in both units when the low battery indicator appears on the display. Use only AAA batteries.
- **Cleaning:** Wipe the units with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Storage:** If storing the device for an extended period, remove the batteries from both units to prevent leakage and corrosion. Store in a dry, cool place.
- **Transmitter Sealing:** Always ensure the transmitter's battery compartment is securely closed and the alignment marks are matched to maintain its IPX8 waterproof rating.

7. TROUBLESHOOTING

Problem	Solution
No temperature reading on receiver.	<ul style="list-style-type: none">◦ Check if batteries are installed correctly in both units.◦ Ensure batteries have sufficient power. Replace if necessary.◦ Re-synchronize the units by pressing and holding the "CH/SYNC" button on the receiver for 3 seconds.◦ Ensure the transmitter is within the 500ft wireless range of the receiver.◦ Reduce obstacles between the transmitter and receiver (e.g., thick walls, large metal objects).

Problem	Solution
Inaccurate temperature readings.	<ul style="list-style-type: none">◦ Ensure the receiver is not placed in direct sunlight or near heat sources, as this can affect indoor temperature/humidity readings.◦ Verify the transmitter's battery compartment is properly sealed to prevent water ingress affecting the sensor.◦ Clear the MAX/MIN records by pressing and holding the "MAX/MIN / CLEAR" button to reset readings.
Transmitter is sinking or leaking.	<ul style="list-style-type: none">◦ Ensure the battery compartment is securely closed and the alignment marks are perfectly matched. Improper sealing can lead to water ingress and damage.

8. SPECIFICATIONS

- **Model Number:** TP211B
- **Brand:** ThermoPro
- **Connectivity Technology:** RF (Radio Frequency)
- **Wireless Range:** Up to 500 feet (150 meters) in open air
- **Waterproof Rating (Transmitter):** IPX8
- **Temperature Accuracy:** $\pm 0.9^{\circ}\text{F}$ ($\pm 0.5^{\circ}\text{C}$)
- **Water Temperature Range:** -40°F to 158°F (-40°C to 70°C)
- **Power Source:** 4 x AAA batteries (2 for receiver, 2 for transmitter) - included
- **Display Type:** Digital LCD with Backlight
- **Material:** High-quality ABS Plastic
- **Compliance:** FCC certified
- **Package Dimensions:** 7.2 x 4.65 x 3.62 inches
- **Item Weight:** 11.99 ounces

9. WARRANTY AND SUPPORT

ThermoPro provides a warranty for this product against defects in materials and workmanship. For specific warranty terms, registration, and customer support, please refer to the official ThermoPro website or contact their customer service directly.

Manufacturer: ThermoPro

For further assistance, visit the [ThermoPro Store on Amazon](#) or consult the contact information provided in your product packaging.

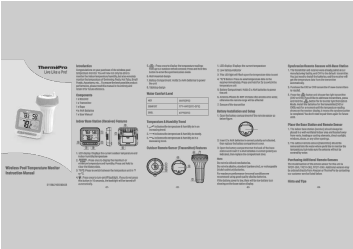
Documents - ThermoPro – TP211B



[ThermoPro TP211B/TP211C Wireless Pool Temperature Monitor - Instruction Manual](#)

Comprehensive instruction manual for the ThermoPro TP211B/TP211C wireless pool temperature monitor. Learn about features, setup, troubleshooting, and specifications for accurate pool and hot tub temperature monitoring.

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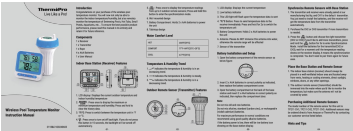


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