

## WIRELESS INDOOR/OUTDOOR TEMPERATURE MONITOR INSTRUCTION MANUAL Model No. TP212B/TP212C

### Introduction

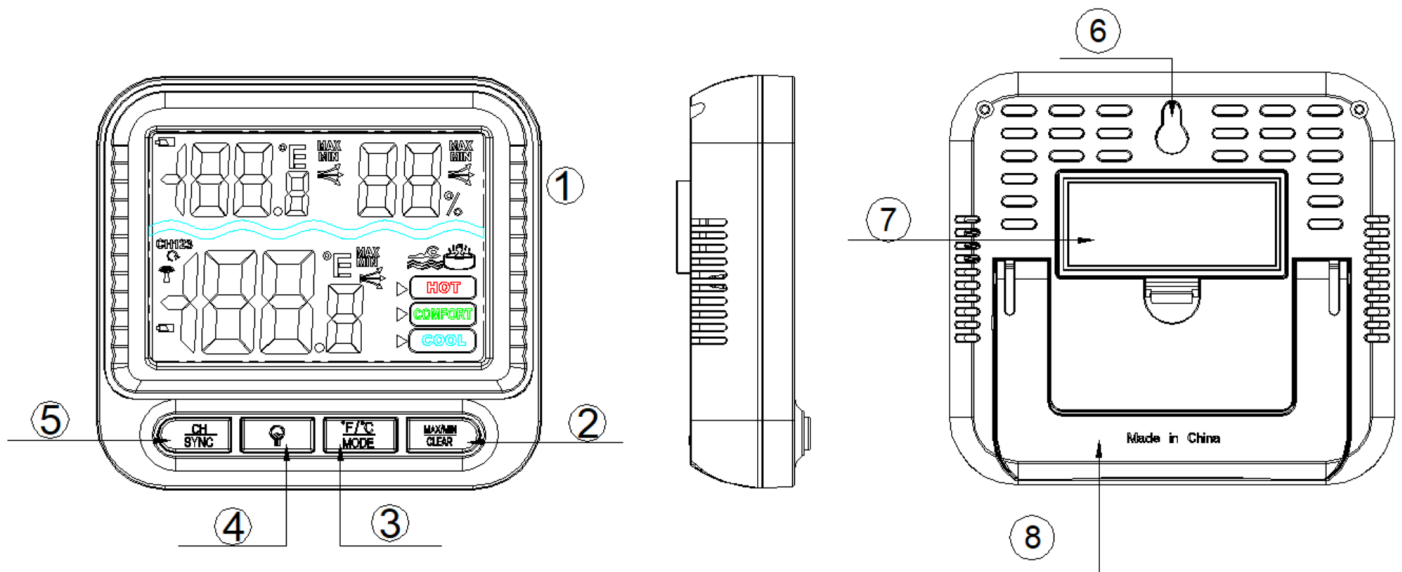
Congratulations on your purchase of the wireless indoor/outdoor temperature monitor. It supports solar power recharging. Wireless Thermometer Set with Indoor Temperature Humidity Monitor, for Swimming Pools, Hot Tubs, Small Ponds, Aquariums

**Important Note:** The transmitter is equipped with a built-in 14500 rechargeable battery and an external solar panel. If the transmitter does not turn on when you press the power button after receiving the product, or if a low-battery symbol appears, please place it in direct sunlight to recharge the battery before use. If the transmitter is used in an indoor pool setting for an extended period, please place it in direct sunlight for approximately 5 days to recharge the battery after the low-battery warning appears.

### Components

1. One base station unit (Receiver)
2. One remote sensor (Transmitter)
3. 2\* AAA size batteries (Receiver)
4. 1 x 14500 Built-in lithium rechargeable battery+Solar Panel (Transmitter)

### Indoor Base Station (Receiver) Features



- 1、LCD display: Displays the current outdoor temperature and indoor humidity/temperature
- 2、MAX/MIN/CLEAR: Touch once to display the maximum or minimum temperature and humidity; Press and hold to clear the history data.

3、 °F/°C/MODE: Press once to select the temperature display in °C or °F. Press and hold to switch between swimming pool and HOT TUB

4、  : Press once to turn on/off backlight. If you do not press the button for 15 seconds, the backlight will be automatically turned off.

5、 CH/SYNC: Press once to display the temperature and humidity readings from up to 3 outdoor remote sensors; Press and hold this button to enter the synchronization mode.

6、 wall-mounted design

7、 Battery Compartment: Holds 2 AAA batteries to power the unit

8、 Tabletop design

swimming pool water comfort level

|         |                     |
|---------|---------------------|
| HOT     | ≥84 °F(29°C)        |
| COMFORT | 77-84 °F(25°C-29°C) |
| COOL    | ≤77°C(25°C)         |

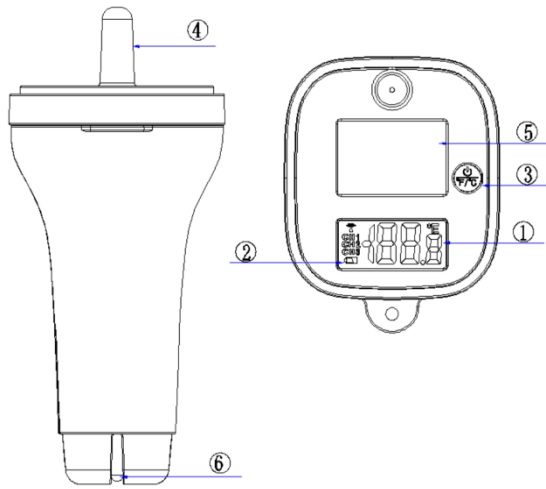
Hot tub water comfort level

|         |                      |
|---------|----------------------|
| HOT     | ≥102 °F(39°C)        |
| COMFORT | 98-102°F (37°C-39°C) |
| COOL    | ≤98°C(37°C)          |

### Temperature & HUMIDITY Trend

1. ↗ indicates the temperature & humidity is in an increasing trend.
2. → indicates the temperature & humidity is in an no change trend.
3. ↘ indicates the temperature & humidity is in a decreasing trend.

### Outdoor Remote Sensor (Transmitter) Features



- 1、 LCD display: Displays the current temperature
- 2、 When the battery voltage drops below 3.3V, the low battery symbol appears.
- 3、 ON/OFF/°F/°C Button: Tap to turn on, press and hold for 3 seconds to turn off. While the device is on, tap to switch temperature units.
- 4、 Antenna: Transmit temperature data via the antenna.
- 5、 Solar Panel
- 6、 Location of the transmitter's temperature sensor.。

(Note: Do not submerge the antenna in water, as this will reduce the transmission range. If used indoors for an extended period, place it in direct sunlight for about 5 days to recharge once the low battery indicator appears. If the product displays a low battery symbol or fails to turn on, place it in direct sunlight for about 5 days to recharge.)

### **Synchronize Remote Sensors with The Base Station**

1. The factory has already paired the receiver and transmitter; by default, the transmitter is paired with CH1. Simply power on the receiver, then briefly press the power button on the transmitter, and it will automatically start receiving temperature data.
2. If you need to add more transmitters, please purchase CH2 or CH3 transmitters.。
3. To register the CH2 transmitter, press the CH/SYNC button on the receiver, select Channel 2, then hold down the CH/SYNC button for 3 seconds. The receiver will enter registration mode. Next, press the power button on the CH2 transmitter to turn it on. Once the receiver receives the temperature data from CH2, registration is complete.。
4. The procedure for registering the CH3 transmitter is the same: press the CH/SYNC button on the receiver, select CH3, then hold down the CH/SYNC button for 3 seconds. The receiver will enter registration mode; then turn on the CH3 transmitter. Once the receiver receives the temperature data from CH3, registration is complete.
5. Once the receiver and transmitter have been successfully registered, there is no need to re-pair them when replacing the receiver's batteries.。

### **Place the Base Station and Remote Sensor**

1. The indoor base station (receiver) should always be placed in a well ventilated indoor area and located away from vents, heating or cooling elements, direct sunlight, windows, doors, or any other openings.
2. Place the transmitter in a swimming pool, bathtub, or other body of water being tested. Make sure the antenna is above the water surface; do not submerge the entire unit in water.

## PURCHASING ADDITIONAL REMOTE SENSORS

The model number of the remote sensor for this unit is TP212.

Additional sensors may be ordered directly from Amazon or ThermoPro by contacting our customer service listed below.

## Hints and Tips

If the receiver does not connect to the transmitter, try the following:

- Relocate the base station and/or the remote unit until connection is found.
- Signals from other electronic devices may cause interference. Place the base station and receiver away from these devices.
- The transmitter may not function properly in extreme temperatures due to battery power. Replace the batteries or the unit will resume proper function in more moderate weather.

## Warnings

- Do not subject the unit to excessive force, shock, dust, temperature or humidity.
- Do not immerse the unit in water.
- Do not remove any screws.
- Do not dispose this unit in a fire. IT MAY EXPLODE.
- Keep unit away from small children. The unit or parts of the unit might be a choking hazard.
- Never attempt to recharge the batteries using any other methods.
- Dispose of the unit legally and recycle when possible.

## Specifications

| Specification               |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
| Temperature/ Humidity Range |                                                                          |
| Base Station                | -22.0 to 140.0°F (-30.0 to 60.0°C)、                                      |
|                             | Humidity range: 10% ~ 99%                                                |
| Remote Sensor               | -40.0 to 158.0°F (-40.0 to 70.0°C)                                       |
| Temperature Tolerance       | ±0.9°F (± 0.5°C) from 32 to 140°F (0 to 60°C)<br>otherwise ±1.8°F (±1°C) |

|                                                                                                                                                                                                                                                                           |                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Refresh rate                                                                                                                                                                                                                                                              |                                                                                                            |
| Base station                                                                                                                                                                                                                                                              | 50 seconds                                                                                                 |
| Remote sensor                                                                                                                                                                                                                                                             | 50 seconds                                                                                                 |
| Sensor Type                                                                                                                                                                                                                                                               | NTC                                                                                                        |
| Transmission Range*                                                                                                                                                                                                                                                       | 500ft (150M)                                                                                               |
| Wireless Technology                                                                                                                                                                                                                                                       | FSK 915Mhz for USA/Canada and 868Mhz for Europe                                                            |
| Display Base Station                                                                                                                                                                                                                                                      | LCD, $2\frac{7}{8}$ Length x 2 Width inches(73.5L x50.5W mm)                                               |
| Display Remote Station                                                                                                                                                                                                                                                    | LCD, Diameter $1\frac{3}{16}$ inches(34*17mm)                                                              |
| Backlight                                                                                                                                                                                                                                                                 | Y                                                                                                          |
| Unit Size                                                                                                                                                                                                                                                                 |                                                                                                            |
| Base Station                                                                                                                                                                                                                                                              | $3\frac{7}{8}$ Length x $3\frac{5}{8}$ Width x $\frac{15}{16}$ Height inches<br>(98.0L x 91.0W x 23.0H mm) |
| Remote Sensor                                                                                                                                                                                                                                                             | $\phi 3$ x $5\frac{3}{4}$ Height inches<br>( $\phi 76.0$ x146.0H mm)                                       |
| Power                                                                                                                                                                                                                                                                     |                                                                                                            |
| Base Station                                                                                                                                                                                                                                                              | 3.0V( 2 x AAA Batteries)                                                                                   |
| Remote Sensor                                                                                                                                                                                                                                                             | 3.7V(1 x 14500 Built-in lithium rechargeable battery)+Solar Panel                                          |
| *The stated transmission range is based on tests at an ambient temperature of 77°F or 25°C of swimming pool without any obstructions or electromagnetic interference. Your range can vary depending on the number of obstructions and electromagnetic in your environment |                                                                                                            |

## FCC STATEMENT OF COMPLIANCE

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful

interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and the receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

### **LIMITED ONE-YEAR WARRANTY**

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

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

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

### **CUSTOMER SERVICE**

Telephone: 1-877-515-7797(USA & Canada only)

Email: [service@buythermopro.com](mailto:service@buythermopro.com)

Hours: Weekdays 9:00 AM- 6:00 PM EST