

# INKBIRD

## WIRELESS POOL MONITOR WITH AMBIENT LIGHT

### IBS-P05R

*LIGHT REMOTE CONTROL VIA INDOOR RECEIVER*





Please keep this manual properly for reference. You can also scan the QR code to visit our official website for product usage videos. For any usage issues, please feel free to contact us at **support@inkbird.com**.

- Wenn Sie eine Bedienungsanleitung in deutscher Sprache benötigen, scannen Sie bitte den QR-Code und besuchen Sie unsere Website, um sie zu erhalten und ein Video über die Verwendung des Produkts zu sehen.
- Se avete bisogno di un manuale di istruzioni in italiano, scansionate il codice QR e visitate il nostro sito web per ottenerlo e vedere un video su come utilizzare il prodotto.
- Si vous avez besoin d'un mode d'emploi en français, veuillez scanner le code QR pour visiter notre site officiel afin d'obtenir et de visionner la vidéo d'utilisation du produit !
- Als je een Nederlandstalige handleiding nodig hebt, scan dan de QR-code om naar onze officiële website te gaan en bekijk de video over het gebruik van het product!
- Si necesita el manual de instrucciones en español, escanee el código QR para ir a nuestro sitio web oficial y ver el video sobre cómo utilizar el producto.



### ***Warm tips***

- To quickly jump to a specific chapter page, click on the relevant text on the contents page.
- You can also use the thumbnail or document outline in the top left corner to quickly find a specific page.

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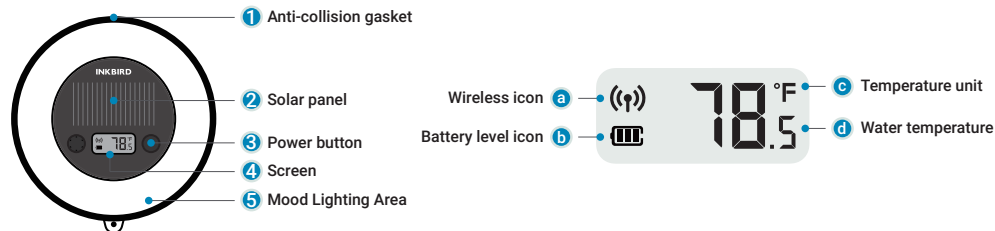
## 01 Overview


The IBS-P05R is a portable pool equipment that integrates wireless pool temperature detection and mood lighting. It is both environmentally friendly and economical as it absorbs sunlight and converts it into electricity through the built-in solar panel. The thermometer provides real-time pool water temperature monitoring and transmits the data to the indoor receiver, enabling remote access to water temperature information. The mood light, which can be adjusted in brightness and color, enhances the ambiance for night swimming, offering practical convenience and aesthetic appeal. The mood light is designed to support the automatic switch function, which adjusts the light according to the external light intensity. This feature can be controlled remotely through the indoor unit, allowing you to adjust the brightness and color mode. This enhances the overall enjoyment and convenience of the swimming pool environment.

## 02 Preparation Before Using

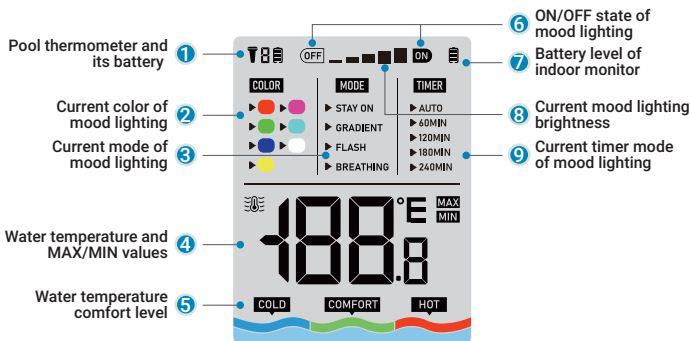
- 1 Make sure the batteries of the indoor monitor are installed correctly and working properly.
- 2 Press the button on the pool thermometer to turn it on. After powering on, shortly press the button to change the temperature unit to °C or °F; press and hold the button for 5 seconds to turn off the thermometer.
- 3 We recommend that you place the pool thermometer in a location exposed to strong sunlight and use it after the battery reaches 3 bars (  ). If you plan to use it in the sun for a long time, please ignore this step.  
NOTE: When the battery of the pool thermometer is too low to support the mood light, the pool thermometer will automatically turn off the mood light, and the temperature detection function will not be affected.


## A. Pool Thermometer



- 1 **Anti-collision gasket:** This protects the product and reduces noise when it crashes into the wall.
- 2 **Solar Panel:** Do not shield or cover the solar panel.
- 3 **Power button:** When the thermometer is off, press the button once to turn it on. When thermometer is on, press the button once to change the temperature unit. Press and hold the button for 5 seconds to turn it off.
- 4 **Screen:**
  - a **Wireless icon:** It flashes once when transferring data
  - b **Battery level icon:** If you see 3 bars, the battery is full. When the  icon flashes, it means the battery is low.
  - c **Temperature unit:** Press the power button to switch between °C and °F.
  - d **Water temperature:** It shows the real-time water temperature, with a display accuracy of 0.1°F (0.1°C).
- 5 **Mood lighting area**

## B. Indoor Monitor



**1 Pool thermometer and its battery level:** It shows the current channel and its battery level. When the channel is switched to 0, all bound channels will be displayed in turn every 2 seconds. When the  icon flashes, it means that the battery of the corresponding pool thermometer is too low.

*NOTE: When you switch to channel 0, the mood light control will act on all pool thermometers at the same time. When you switch to a specific channel (pool thermometer 1 to 9), the mood light control will act on the corresponding pool thermometer. Each indoor thermometer supports connecting up to 9 pool thermometers.*

**2 Current color of mood lighting:** You can set the color of the mood lighting to red, green, blue, yellow, pink, cyan, or white.

**3 Current mode of mood lighting:** can be chose from 4 modes

- **STAY ON:** (default) It stays lit in the currently selected color.
- **GRADIENT:** 7 colors of light gradually show in turn at the breathing rate. If you choose this mode, the light's color setting will no longer work.
- **FLASH:** It is different from the GRADIENT mode. One light turns off before the next light turns on, and 7 colors of light appear one by one. If you choose this mode, the light's color setting will no longer work.
- **BREATHING:** The light flashes in the color that is currently selected and at the breathing rate.

- 4 Water temperature and MAX/MIN values:** It shows the real-time water temperature of the current channel, with a display accuracy of 0.1°F (0.1°C). The max and min values in all the time is displayed in the MAX/MIN mode.
- 5 Water temperature comfort level:** It shows the current water temperature is cold / comfort / hot, and the comfort range is set to 78°F-86°F (25.5°C to 30°C) by default.
- 6 ON/OFF of mood light:** It shows if the mood light for the current channel is on or off. Please note that when the mood light is turned off, other control functions for the mood light will no longer work.
- 7 Current mood lighting brightness:** It shows how bright the mood light is for the current channel. There are five brightness levels to choose from.
- 8 Battery level of indoor monitor:** It shows the current battery level of the indoor monitor. When the icon flashes, it means the battery is too low.
- 9 Current timer mode of mood lighting:** There are 5 timer modes to choose from.
- AUTO:** By default, the mood light turns on or off automatically according to the external light intensity (under the current mood light on state). After the mood light is turned on automatically, it will turn off after working for 300 minutes.
  - 60MIN:** The mood light stays on for 60 minutes and then turns off automatically.
  - 120MIN:** The mood light stays on for 120 minutes and then turns off automatically.
  - 180MIN:** The mood light stays on for 180 minutes and then turns off automatically.
  - 240MIN:** The mood light stays on for 240 minutes and then turns off automatically.
- NOTE: Every time the mood light setting is changed, the timer will restart.*

## Indoor Monitor Operation Buttons

### MAX/MIN

- Press once to display the max/min water temperature;
- Long press to reset the max/min record;
- In the setting mode, press to decrease (long pressing for quick adjustment).

### °F/°C

- Press once to change the temperature unit;
- Long press to enter the setting mode.

### CH/R

- Press once to change the channel;
- Long press to reset the channels;
- In the setting mode, press to increase (long pressing for quick adjustment).

After entering the setting mode:

1. The "COLD" icon flashes, press the MAX/MIN or CH/R button to adjust the parameter (when the water temperature is smaller than this value, it is cold). Then, confirm and press the °F/°C button to proceed to step 2.
2. The "HOT" icon flashes, press the MAX/MIN or CH/R button to adjust the parameter (when the water temperature is greater than this value, it is hot). Then, confirm and press the °F/°C button to complete the setting.



Press once to turn on or off the mood light under the current channel.  
(When the mood light is turned off, other control functions for the mood light will no longer work.)



Press once to change the color of the mood light under the current channel.



Press once to change the brightness of the mood light under the current channel.



Press once to change the working mode of the mood light under the current channel.



Press once to change the timer mode of the mood light under the current channel.

## 04

### Product Specifications

- **Battery:** 2\*AAA 1.5V (included)
- **Transmission Distance:** up to 300 meters (980ft) in open space (if there is interference, the transmission distance will be limited.)

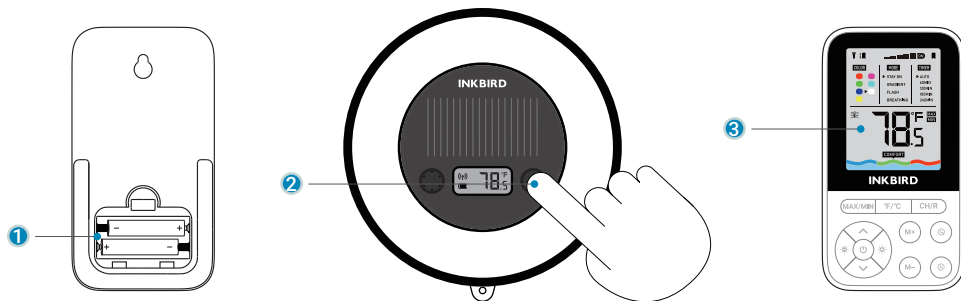
#### A. Indoor Monitor

- **Temperature display range:** -40°C~70°C (-40°F~158°F)
- **Temperature display accuracy:** 0.1°C (0.1°F)
- **Maximum number of pool monitor channels supported at the same time:** 9

## B. Pool Thermometer

- Temperature measurement range:  $-40^{\circ}\text{C}\sim 70^{\circ}\text{C}$  ( $-40^{\circ}\text{F}\sim 158^{\circ}\text{F}$ )
- Temperature measurement accuracy:  $\pm 1^{\circ}\text{C}$  ( $\pm 1.8^{\circ}\text{F}$ )
- Temperature display accuracy:  $0.1^{\circ}\text{C}$  ( $0.1^{\circ}\text{F}$ )
- Sampling period: 5s
- Waterproof grade: IP68
- Warranty: 1 year


### 05 Add Sub-Devices



- 1 Firstly, make sure the batteries of the indoor monitor are installed correctly and working properly.
- 2 Secondly, make sure that the pool thermometer is turned on, and place the pool thermometer as close to the indoor monitor as possible. Then press the Power button on the pool thermometer once.
- 3 Once the indoor monitor receives the data sent from the pool thermometer, the connection between them is established automatically, and the indoor monitor completes adding a sub-device and displays the channel number of the pool thermometer.

**Note:** If you fail to add sub-devices, restart the pool thermometer, and repeat steps 2~3 to add the device. Alternatively, press the Power button on the pool thermometer.

- a. Please do not disassemble the product if you are not a professional.
- b. Be sure that the sensor is not covered with dust as dust may lead to inaccurate measurements.
- c. Do not use alcohol to clean the sensor.
- d. Do not dispose the product in a fire as it may explode. Please observe local regulations for proper disposal of discarded electronic products.
- e. Remove from pool when not in use or while cleaning the pool so unit is not damaged by skimmers or other devices.
- f. The thermometer can measure temperatures between -40°C and 70°C (-40°F and 158°F). It is not suitable for use in harsh environments below -40°C/ -40°F and above 70°C/158°F.

Fault Phenomenon	Possible Cause	Possible Solution
<ul style="list-style-type: none"> <li>• The  icon flashes on the screen of the pool thermometer.</li> <li>• No display on the screen of the pool thermometer</li> </ul>	The pool thermometer hasn't been charged by solar power for a long time, so it's out of power.	Place it in a location exposed to strong sunlight for 5 to 7 hours. The stronger the sunlight the better. Then, restart the pool thermometer. The pool thermometer will automatically switch on after recharging if it is in operation when the power is cut.
No display on the indoor monitor's screen.	Batteries are installed incorrectly.	Reinstall the batteries.
Cannot control the mood light of the pool thermometer.	The pool thermometer is too far away.	Move as close as possible to the indoor monitor.

Fault Phenomenon	Possible Cause	Possible Solution
The mood light the pool thermometer does not light up.	<ul style="list-style-type: none"> <li>The battery in the pool thermometer is too low to turn on the mood light or the battery has run out of power.</li> <li>The AUTO timer mode is currently selected and the sunlight intensity is too high, so the mood light function is automatically switched off.</li> </ul>	<ul style="list-style-type: none"> <li>Place it in a location exposed to strong sunlight for 5 to 7 hours. The stronger the sunlight the better. Then, restart the pool thermometer.</li> <li>Place the thermometer in a darker place and the mood light function will automatically switch on, or select another timer mode.</li> </ul>
"H" appears on the indoor monitor screen.	The temperature is higher than 70°C/ 158°F.	Place the pool thermometer in a normal temperature measurement environment.
"L" appears on the indoor monitor screen.	The temperature is lower than -40°C/ 40°F.	
Temperature on the pool thermometer is not synced with the indoor monitor.	Temperature variation is less than 0.3°C.	<ul style="list-style-type: none"> <li>When water temperature variation &lt;0.3°C, sync once every 15 minutes;</li> <li>When water temperature variation is between 0.3°C and 0.5°C, sync once every 15 seconds;</li> <li>When water temperature variation ≥0.5°C, sync once every 5 seconds.</li> </ul>

## 08

### FCC Requirement

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

**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 or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## 09 IC Warning

- This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).
- Operation is subject to the following two conditions:
  - (1) This device may not cause interference.
  - (2) This device must accept any interference, including interference that may cause undesired operation of the device.
- The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance

with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.
- *L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.*
- *L'exploitation est autorisée aux deux conditions suivantes :*
  - (1)*L'appareil ne doit pas produire de brouillage;*
  - (2)*L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*
- *Le dispositif rencontre l'exemption des limites courantes d'évaluation dans la section 2.5 de RSS 102 et la conformité à l'exposition de RSS-102 rf, utilisateurs peut obtenir l'information canadienne sur l'exposition et la conformité de rf.*
- *Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ou émetteur.*
- *Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur et votre corps.*

## 10

### Customer Service

This item carries a 1-year warranty against defects in either components or workmanship. During this period, products that prove to be defective will, at the discretion of INKBIRD, be either repaired or replaced without charge. For any problems in use, please feel free to contact us at **[support@inkbird.com](mailto:support@inkbird.com)**. We will do our best to help you.

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