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## INKBIRD IBS-P05R Wireless Pool Monitor With Ambient Light



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## Important Information

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](mailto:support@inkbird.com).




## 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.


## 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.

## Product Introduction

### A. Pool Thermometer

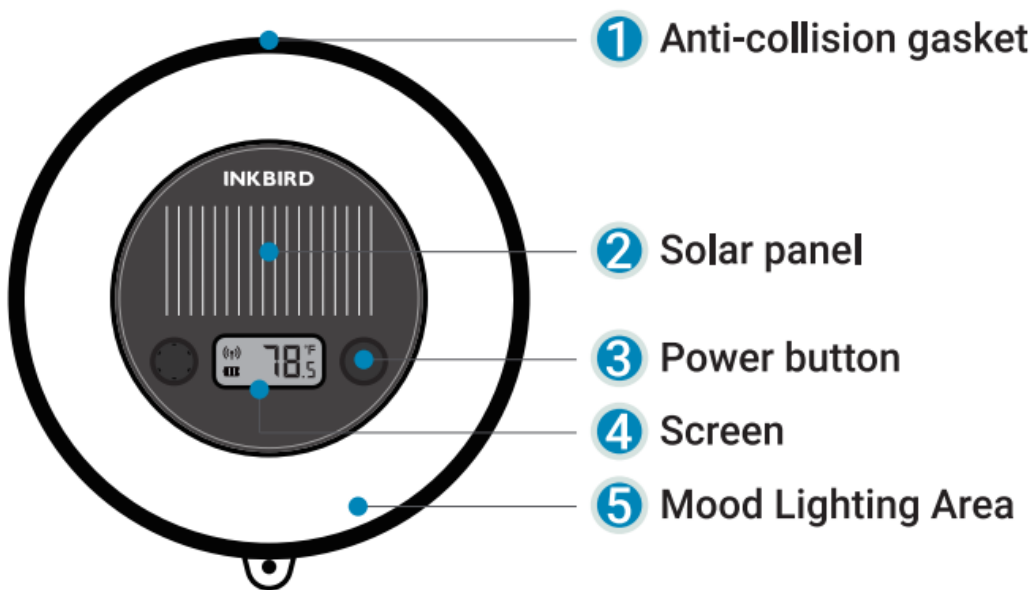
1. **Anti-collision gasket:** This protects the product and reduces noise when it crashes into the wall.
2. **Solar Panel:** Do not shield or cover the solar panel.
3. **Power button:** When the thermometer is off, press the button once to turn it on. When thermometer is on, press the button once to 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


- **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



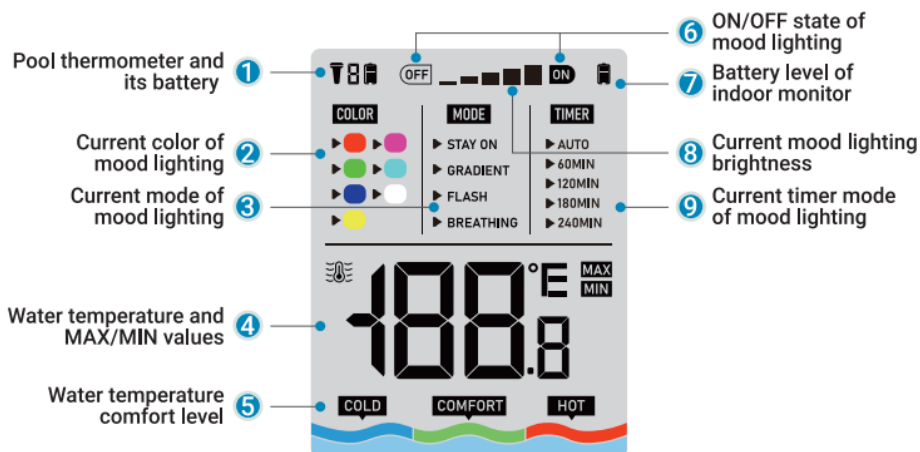
### B. Indoor Monitor

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.

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

### B. Pool Thermometer

- **Temperature measurement range:** -40<sup>°</sup>C ~ 70<sup>°</sup>C (-40<sup>°</sup>F ~ 158<sup>°</sup>F)
- **Temperature measurement accuracy:** ±1<sup>°</sup>C (±1.8<sup>°</sup>F)
- **Temperature display accuracy:** 0.1<sup>°</sup>C (0.1<sup>°</sup>F)
- **Sampling period:** 5s
- **Waterproof grade:** IP68
- **Warranty:** 1 year

## 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.


## Precautions for Use

- **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.

## Troubleshooting

Troubleshooting	Possible Cause	Possible Solution
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<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>	<p>The pool thermometer hasn't been charged by solar power for a long time, so it's out of power.</p>	<p>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.</p>
<p>No display on the indoor monitor's screen.</p>	<p>Batteries are installed in correctly.</p>	<p>Reinstall the batteries.</p>
<p>Cannot control the mood light of the pool thermometer.</p>	<p>The pool thermometer is too far away.</p>	<p>Move as close as possible to the indoor monitor.</p>
<p>The mood light the pool thermometer does not light up.</p>	<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>
<p>"H" appears on the indoor monitor screen.</p>	<p>The temperature is higher than 70°C/ 158°F.</p>	<p>Place the pool thermometer in a normal temperature me</p>

" L " appears on the indoor monitor screen.	The temperature is lower than – 40 °C /40 °F	asurement environment.
Temperature on the pool thermometer is not synced with the indoor monitor.	Temperature variation is less than 0.5 °C	<p>A temperature difference of <math>\leq 0.5</math> deg °C between the pool thermometer and the indoor units is a design limitation intended to reduce power consumption and extend battery life.</p> <p>Contact after-sales service if the difference exceeds 0.5 °C</p>

## 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.

- 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.

## IC Warning

- This device contains licenceexempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licenceexempt 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 issue 6 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.

Wireless Pool Monitor With Ambient Light	
Suit Model: IBS-P05R	
Pool Thermometer Model: IBS-P05R-O	Indoor Monitor Model: IBS-P05R4
<b>FCC ID:</b> 2AYZD-IBSP050	<b>FCC ID:</b> 2AYZD-IBSP051
<b>IC:</b> 30368-IBSP050	<b>IC:</b> 30368-IBSP051

## 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.

**Shenzhen Inkbird Technology Co., Ltd.**  
[support@inkbird.com](mailto:support@inkbird.com)

**Consignor:** Shenzhen Inkbird Technology Co., Ltd.  
**Office Address:** Room 1803, Guowei Building, No.68 Guowei Road, Xianhu Community, Liantang, Luohu District, Shenzhen, China  
**Manufacturer:** Shenzhen Inkbird Technology Co., Ltd.  
**Factory Address:** 5th and 6th Floor, Building 138, No. 71, Yiqing Road, Xianhu Community, Liantang Street, Luohu District, Shenzhen, Guangdong, China

**MADE IN CHINA**

DESIGNED BY INKBIRD



## Documents / Resources

	<p><a href="#">INKBIRD IBS-P05R Wireless Pool Monitor With Ambient Light [pdf]</a> Instru ction Manual</p> <p>IBS-P05R, IBS-P05R Wireless Pool Monitor With Ambient Light, Wireless Pool Monitor With Ambient Light, Pool Monitor With Ambient Light, Monito r With Ambient Light, Ambient Light</p>
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## References

- [User Manual](#)

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