INKBIRD

WIFI POOL THERMOMETER WITH AMBIENT LIGHT

IBS-P05-W

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 vídeo 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.

CONTENTS

01 Overview

The upgraded IBS-P05-W Pool Thermometer features a wireless gateway with a large screen that clearly displays the pool's temperature and lighting effects. It supports remote monitoring via a mobile app and features multiple dynamic lighting effects and customizable colors, offering thousands of options to create your ideal pool ambience. The smart lighting effects and convenient controls will enhance your pool experience.
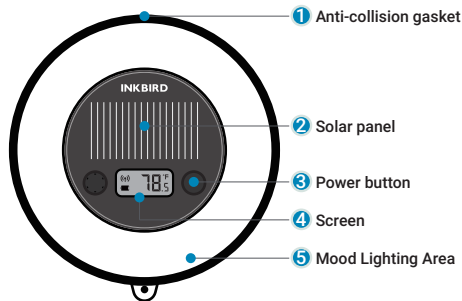
02 Preparation Before Using

❶ Please use the supplied power adapter and cable to connect the WiFi gateway and indoor monitor to a power source.

❷ Press the button on the pool thermometer to turn it on. After powering on, shortly press the button to change the temperature unit to ℃ or ℉; press and hold the button for 5 seconds to turn off the thermometer.

❸ 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:

a. 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.

b. **Charging Note**：*For safety during transportation, this solar product is delivered with a partial charge. Before first use, please place it in direct sunlight.*

● *With the device switching off, it takes around 20 hours of sunlight in total for a full charge (approx. 4 to 5 hours of effective charging per sunny day).*

● *There is no need to wait for a full charge — you can start using the device as soon as it powers on normally.*

● *If the battery runs low, simply switch it off and leave it to recharge in the sun for a few days. Please use it with confidence — there's no need for "battery anxiety".*
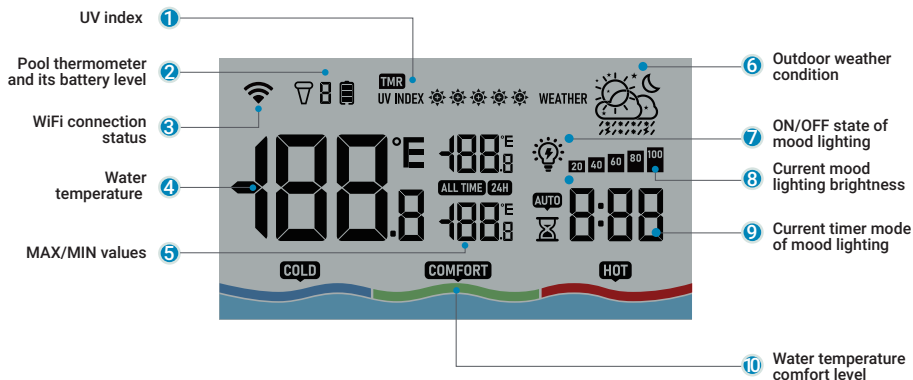
We wish you a relaxed and pleasant experience, powered by sunlight and technology.

A. Pool Thermometer

❶ **Anti-collision gasket:** This protects the product and reduces noise when it crashes into the wall.

❷ **Solar Panel:** Do not shield or cover the solar panel.

❸ **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.

❹ **Screen:**

ⓐ **Wireless icon:** It flashes once when transferring data

ⓑ **Battery level icon:** If you see 3 bars, the battery is full. When the 🔋 icon flashes, it means the battery is low.

ⓒ **Temperature unit:** Press the power button to switch between℃ and ℉.

ⓓ **Water temperature:** It shows the real-time water temperature, with a display accuracy of 0.1℉ (0.1℃).

❺ **Mood lighting area**

B. Indoor Monitor

UV index ❶
Pool thermometer and its battery level ❷
WiFi connection status ❸
Water temperature ❹
MAX/MIN values ❺

Outdoor weather condition ❻
ON/OFF state of mood lighting ❼
Current mood lighting brightness ❽
Current timer mode of mood lighting ❾
Water temperature comfort level ❿

❶ **UV index**：Helps you to know about the current UV index. If the UV index is in a higher level, please take good protection measures based on your needs before swimming outdoors.

Display	UV INDEX	Recommended measure for protection
☀	0-2（Low）	A UV index reading of 0 to 2 means low danger from the Sun's UV rays for the average person.
☀ ☀	3-5（Moderate）	Wear a Hat and Sunglasses,Use SPF 15+ Sunscreen.
☀ ☀ ☀	6-7（High）	Wear a Hat and Sunglasses,Use SPF 30+ Sunscreen.Cover the body with clothing avoid the sun if possible.

Display	UV INDEX	Recommended measure for protection
☀ ☀ ☀ ☀	8-10 （Very high）	Wear a Hat and Sunglasses,Use SPF 30+ Sunscreen.Cover the body with clothing avoid the sun if possible.
☀ ☀ ☀ ☀ ☀	10+ （Extreme）	Take all precautions possible.it is advised to stay indoors.

❷ **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.*

❸ **WiFi Connection Status:** It displays the WiFi connection status and real-time signal strength. To ensure an optimal experience, please make sure that the signal intensity reaches the highest bar.

❹ **Water temperature**： It shows the real-time water temperature of the current channel, with a display accuracy of 0.1℉ (0.1℃).

❺ **MAX/MIN values**： It shows the maximum and minimum values over the past 24 hours or since the beginning of time. You can select the time range using either the buttons or the mobile app

❻ **Outdoor weather condition**： Displays the current weather and weather forecast, within 24 types of weather. Please avoid swimming during inclement weather such as rainstorms and lightning.

• When you press any button to turn on the backlight, "TMR" appears in the weather display area, indicating that the weather currently displayed is tomorrow's forecast.

- Weather information comes from the world's leading weather data API provider—Weatherbit.
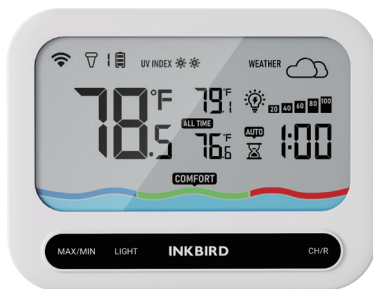
Icon	Weather Description	Icon	Weather Description	Icon	Weather Description
☼	Sunny (day)	☁	Moderate to heavy rain/ Heavy rain	☁	Thunderstorm/Thunder
☽	Sunny (night)	☁	Light to moderate in/ Moderate rain	☁	Thundershower
☼	Partly cloudy (day)	☼	Showers (day)	☁	Light snow/Snow showers
☁☽	Partly cloudy (night)	☁☽	Showers (night)	☁	Light to moderate snow
☁	Mostly cloudy (day)	☁	Torrential rain	☁	Heavy snow/Blizzard
☁☽	Mostly cloudy (night)	☁	Rainstorm	☼	Scattered showers (day)
☁	Cloudy/Misty	☁	Sleet/Freezing rain	☁☽	Scattered showers (night)
☁	Light rain	☁	Hail/Needle ice	☁	Heavy showers
				☁	Thundershower with hail

❼ **ON/OFF state of mood lighting:** 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.

❽ **Current mood lighting brightness**：It shows how bright the mood light is for the current channel. There are five brightness levels to choose from.

❾ **Current timer mode of mood lighting:** It displays the lighting schedules you have designed in the app in a countdown format.

❿ **Water temperature comfort level:** It shows the current water temperature is cold / comfort / hot, and the comfort range is set to 78-86℉ (25.5℃ to 30℃) by default.

Indoor Monitor Operation Buttons

(MAX/MIN)	(light)	(CH/R)
● Press once to select display range (24h/All Time). ● Long press to reset the max/min record;	● Press once to turn the light on or off. ● Long press to reset the WiFi.	● Press once to change the channel; ● Long press to remove all of the paired pool thermometers;

Note: After resetting records or rebooting, the MAX and MIN values will be recorded over again.

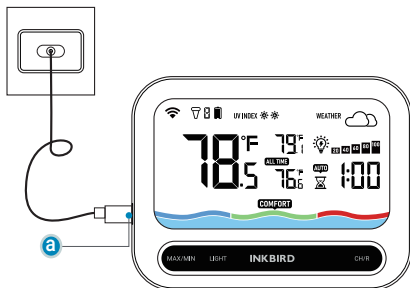**04** *Product Specifications*

Indoor Monitor： IBS-P05-M

- ● **Screen**： LCD
- ● **Compatible networks**： Bluetooth & 868MHz(EU)/915MHz(US&CA) & 2.4GHz WiFi & 5GHz WiFI
- ● **Maximum number of pool monitor channels supported at the same time:** 9
- ● **Transmission Distance:** up to 300 meters (980ft) in open space (if there is interference, the transmission distance will be limited.)
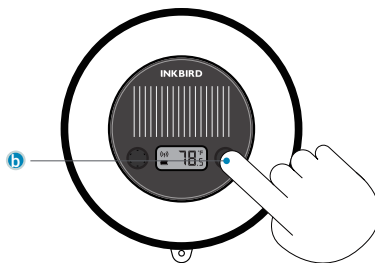
Pool Thermometer: IBS-P05-O

- **Power:** 1000mAh
- **Temperature measurement range:** -40℃~70℃(-40°F~158°F)
- **Temperature measurement accuracy:** ±1℃(±1.8°F)
- **Temperature display accuracy:** 0.1℃(0.1°F)
- **Sampling period:** 5s
- **Waterproof grade:** IP68
- **Warranty:** 1 year

05 Add Sub-Devices

a Please use the supplied power adapter and cable to connect the WiFi gateway and indoor monitor (Receiver) to a power source.
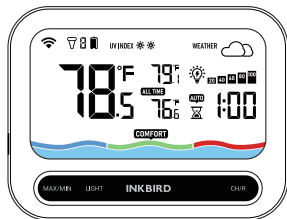

b Secondly, make sure that the pool thermometer (transmitter) is turned on, and place the thermometer as close to the WiFi gateway and indoor monitor (Receiver) as possible. And press the black button on the thermometer to pair.

c Once the indoor monitor (receiver) receives the data sent from the pool thermometer (transmitter), the connection between them is established automatically, and the monitor (receiver) will complete adding a sub-device and display the channel number of the pool thermometer (transmitter).

Note: If you fail to add sub-devices, please restart the pool thermometer (transmitter), and repeat steps b~c to add the device.

c

06 *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℃ and 70℃ (-40℉ and 158℉). It is not suitable for use in harsh environments below -40℃/ -40℉ and above 70℃/158℉.

Malfunctioned Phenomenon	Possible Cause	Possible Solution
● The ☐ icon flashes on the screen of the pool thermometer. ● No display on the screen of the pool thermometer	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.
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.
The mood light the pool thermometer does not light up.	● The battery in the pool thermometer is too low to turn on the mood light or the battery has run 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.
"H" appears on the indoor monitor screen.	The temperature is higher than 70℃/158℉.	Place the pool thermometer in a normal temperature measurement environment.
"L" appears on the indoor monitor screen.	The temperature is lower than -40℃/40℉.	
Temperature on the pool thermometer is not synced with the indoor monitor.	Temperature variation is less than 0.3°C.	● When water temperature variation <0.3℃, sync once every 15 minutes; ● When water temperature variation is between 0.3℃ and 0.5℃, sync once every 15 seconds; ● When water temperature variation ≥0.5℃, sync once every 5 seconds.

8.1 Search for the INKBIRD App from Google Play or App Store to get it for free, or you can scan the QR code below to download it directly.

NOTE：

1. Your iOS devices must be running iOS 12.0 or above to download the app smoothly.

2. Your android devices must be running android 7.1 or above to download the app smoothly.

3. APP Location Permission Requirement: We need to obtain your location information to discover and add nearby devices. INKBIRD promises to keep your location information strictly confidential. And your location information will only be used for the location function of the App and will not be collected, used, or disclosed to any third party. Your privacy is very important to us. We will abide by relevant laws and regulations and take reasonable security measures to protect your information security.

8.2 Registration

Step1: Registering an account is necessary before using the INKBIRD app for the first time.

Step2: Open the app, select your Country/Region, and a verification code will be sent to you.

Step3: Enter the verification code to confirm your identity, and the registration is complete.

8.3 How to connect

Open the INKBIRD app and Click "+" on the top right corner to add a device. Then, follow the app instructions to complete the connection. Be careful to put the device as close as possible to the smartphone and router during the connection process.

10

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.

10 *IC Warning(IBS-P05-M)*

This device contains licence-exempt transmitter(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.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference including interference that may cause undesired operation of the device.

Cet appareil contient un ou des émetteurs exempts de licence conformes aux RSS exempts de licence d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes :

1. Cet appareil ne doit pas causer d'interférences.

2. Cet appareil doit accepter toutes les interférences, y compris les interférences susceptibles d'entraîner un fonctionnement

Cet appareil satisfait aux normes RSS de matériel radio exempté de licence par le Gouvernement du Canada. Son fonctionnement est sujet aux deux conditions suivantes :

(1) Il ne doit pas causer de brouillage préjudiciable et

(2) doit accepter tout brouillage reçu, y compris tout brouillage qui pourrait nuire à son fonctionnement.

The device has been evaluated to meet general RF exposure requirement.

L'appareil a été évalué pour répondre aux exigences générales d'exposition aux RF.

ISED only permits the 5150-5250 MHz for use indoor, except for equipment installed inside vehicle. The user manual should include similar statement as "Operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems."

This device contains licence-exempt transmitter(s)/receiver(s) that comply with innovation,Science and Economic Development Canada's licence-exempt RSS(S).Operation of 5150-5350MHz is restricted to indoor use.

11 *FCC Requirement(IBS-P05-O)*

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 followingtwoconditions:

(1) this device may not causeharmful interference,and

(2) this device must accept any interference received,includinginterference 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 limit's are designed toprovidereasonableprotection 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 ihterference will not occur in a particular installation. If this equipment does cause harmfulinterference to radio dr television reception, which can be determined by turning the equipment off and on, the useris encouraged to tryito correct the interference by one or more of thefollowing measures:

-Reorientorrelocatethereceivingantenna

- 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.

12 *IC Warning(IBS-P05-O)*

This device contains licence-exempt transmitter(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.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation,

13

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

Wireless Pool Monitor With Ambient Light	
Suit Model：IBS-P05-W	
The suit includes the following products	
Name：Pool Thermometer	Name：Indoor Monitor
Model：IBS-P05-O	Model：IBS-P05-M

13 *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**. We will do our best to help you.

Shenzhen Inkbird Technology Co., Ltd.

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