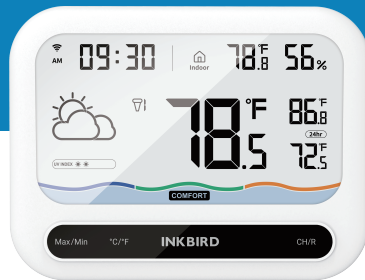# INKBIRD

ACCURATE DETECTION

WIRELESS POOL THERMOMETER & WIFI GATEWAY

IBS-P03R & IM-03-w

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

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.

The INKBIRD Solar Powered Wireless Pool Thermometer has high precision sensors for accurate and sensitive readings. It is environmentally friendly and economical as it can be recharged by solar power, eliminating the need for frequent battery changes. It has the highest waterproof rating of IP68. Combined with the IM-03-W WiFi gateway and indoor monitor, you can monitor pool thermometers within 300 meters (obstacle free) and get weather and UV information to ensure a healthy swimming experience, while you can view the indoor temperature and humidity to easily learn about the indoor environment. The IM-03-W WiFi gateway can connect to the INKBIRD app for intelligent remote monitoring and control.

02 *Preparation Before Using*
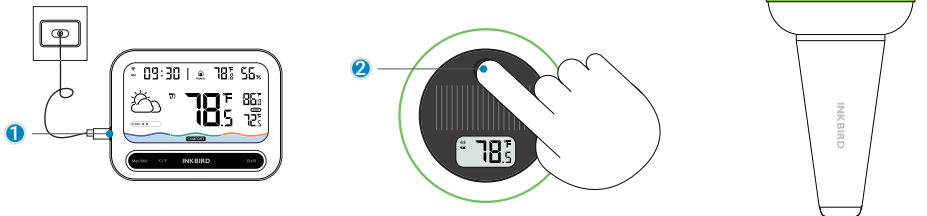
❶ Please use the supplied power adapter and cable to connect the WiFi gateway and indoor monitor to a power source.

② Press the action button on the pool thermometer (Transmitter) to turn it on. After powering on, press the action button to switch between Celsius (℃) or Fahrenheit (℉). To turn off the thermometer, press and hold the action button for 5 seconds.

③ We recommend that you place the pool thermometer in a location exposed to strong sunlight and use it after the battery reaches three bars (🔋). If you plan to use it in the sun for a long time, please ignore this step.

03 *Product Introduction*

A. Pool Thermometer (Transmitter)
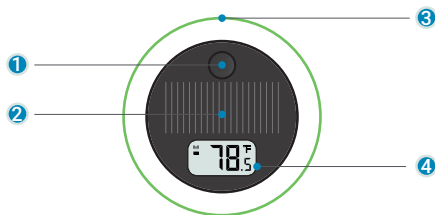
① **Action Button:** To turn on the thermometer, shortly press it; to change the temperature unit, shortly press it after powering on; to turn off the thermometer, press and hold for 5 seconds.

② **Solar Panel:** Please do not block or cover the solar panel.

③ **Anti-collision Gasket:** This is to protect the product from collisions and reduce the noise caused by collisions.

④ **Screen:**

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

    ⓑ **Battery level icon:** The battery capacity is indicated by three bars. If the icon ▭ is flashing, it means that the battery power is too low.

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

    ⓓ **Water temperature:** The real-time water temperature, with a displaying accuracy of ±0.1℃/℉.

B. WiFi Gateway and Indoor Monitor (Receiver)
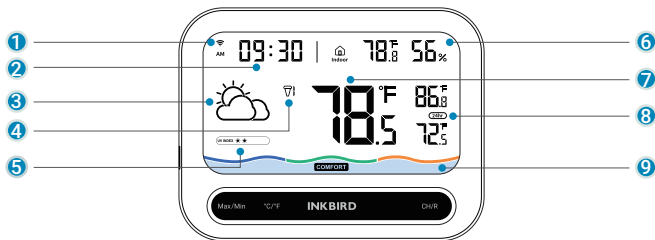
① **WiFi icon:** Flashes when WiFi function is activated; stays lit when WiFi connection is made.

② **Time:** Displays the real-time local time after connecting to WiFi. Time format can be switched between 12 hours

and 24 hours in the application.

PS：When the time format is set to 12 hours, the AM on the screen means ante meridiem and PM means post meridiem.

❸ Weather: 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

④ **Channel number:** The current channel number，If you switch to channel 0, each of the linked channels will be displayed in turn every 3 seconds.

⑤ **Ultraviolet light:** 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.
☀ ☀ ☀ ☀	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.

⑥ **Indoor temperature and humidity:** Displays the current ambient temperature and humidity of the indoor monitor in real time.

⑦ **Current water temperature:** Displays the current water temperature detected by the pool thermometer under the current channel.

❽ MAX/MIN water temperatures: The MAX and MIN water temperatures for the past 24 hours or all the time, as measured by the pool thermometer under the current channel.

● *24H: The displayed MAX and MIN values represent the highest and lowest values recorded in the past 24 hours*;

● *All time: The displayed MAX and MIN values which are the highest and lowest values since starting up or the last recording reset.*

❾ Water temperature comfort level: The current water temperature is shown to be in the cold /comfort / hot state. The comfort range is set to 78℉ to 86℉ (25.5℃ to 30℃) by default. If you need to customize the water temperature comfort level, change it on the APP-SET-Comfort Level Plan after connecting to WiFi.

Operation Instruction of Buttons

Max/Min	°C/°F	CH/R
● Press once to select the time display mode for the max/min values; ● Long press to reset the max/min record.	● Press once to change the temperature unit; ● Long press to reset the WiFi.	● Press once to switch 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.

A. Pool Thermometer (Transmitter)

- **Temperature measurement range:** -40℃~70℃ (-40℉~158℉)
- **Temperature measurement accuracy:** ±1℃ (±1.8℉)
- **Temperature display accuracy:** 0.1℃ (0.1℉)
- **Power:** 3.7V 500mAh 1.85Wh

- **Sampling period:** 5s
- **Waterproof grade:** IP68
- **Warranty:** 1 year

B. WiFi Gateway and Indoor Monitor (Receiver)

- **Transmission Distance:** up to 300 meters (980ft) in open space (if there is interference, the transmission distance will be limited.)
- **Temperature measurement range:** -10℃~60℃ (14℉~140℉)
- **Temperature measurement accuracy:** ±0.3℃ (±0.54℉)
- **Maximum number of thermometer channels supported at the same time:** 9

- **Temperature display accuracy:** 0.1℃ (0.1℉)
- **Humidity measurement range:** 0~99%
- **Humidity measurement accuracy:** ±3%
- **Humidity display accuracy:** 1%

5.1 Search 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.

NOTES:

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. The device supports a 2.4GHz Wi-Fi router only.

4. 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.

5.2 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.

5.3 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 WiFi connection. Note that the device should be as close as possible to the smartphone and router during the connection process.

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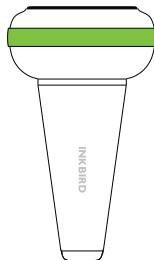
a.   Please use the supplied power adapter and cable to connect the WiFi gateway and indoor monitor (Receiver) to a power source.

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.

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.

Fault Phenomenon	Possible Cause	Possible Solution
The indoor monitor is providing inaccurate temperature and humidity readings.	The air outlet is blocked.	Remove the blockage.
	Water has infiltrated the air outlet.	Leave the product in a dry and well-ventilated place or wipe it dry using kitchen paper.
The indoor monitor displays " H "	The temperature is higher than the product's measurement range.	Please operate within the designated measurement range of the product. Transmitter: -40℃~70℃ (-40°F~158°F) Receiver: -10℃~60℃ (14°F~140°F)
The indoor monitor displays " L "	The temperature is lower than the product's measurement range.	
Receiver disconnects/loses connection to pool thermometer(Transmitter)	No pairing was performed	Hold the pool Thermometer (Transmitter) close to the Receiver and press the black button on the pool Thermometer (Transmitter).
	The distance is too far to disconnect	
	The pool thermometer(Transmitter) has run out of power.	Place pool Thermometer (Transmitter) in direct sunlight for 10 hours to fully charge.

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.

● 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 andcompliance 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 etla conformité à l'exposition de RSS-102 rf, utilisateurs peut obtenir l'information canadienne surl'exposition et la conformité de rf.*

- *Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ouémetteur.*

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

Shenzhen Inkbird Technology Co.,Ltd.

support@inkbird.com

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