INKBIRD

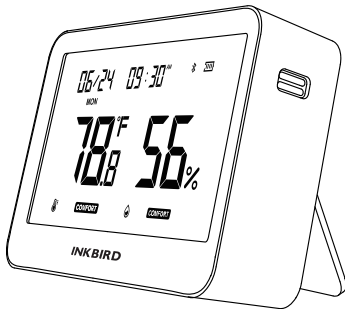**ITH-21-B**

Smart Thermo-Hygrometer

⠿ A New Generation Of Bluetooth Smart Tabletop Temperature And Humidity Detector

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 below to visit our official website for product usage videos. For any usage issues, please feel free to contact us at **support@inkbird.com.**

01 Overview

Congratulations on taking this important step towards a healthier life.

INKBIRD launches a new intelligent temperature and humidity detector equipped with an industrial grade sensor by Sensirion, Switzerland, ensuring high temperature accuracy of ±2℃ and high humidity accuracy of ±1.8%. The unique design integrates date and clock functions, with a large 3.8" screen for clear and easy viewing. You can also change the display content according to your needs. It can accurately monitor the air in environments such as your home, nursery, bedroom, office and classroom. Its ultra-long battery life of 15 months guarantees extended use, and the high-quality materials and workmanship make it reliable, bringing a new, smart and comfortable living experience.
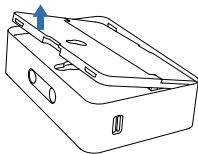
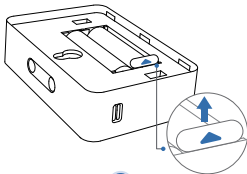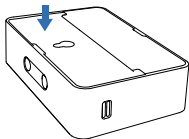| Temperature | Humidity | Time | Comfort Level | Date | Week |

Please open the back cover to remove the insulation strip and make sure the batteries are inserted correctly, as indicated by the "+" and "-" signs. Then replace the back cover.
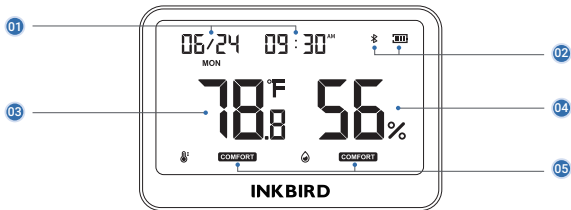

a   b   c

01 **Date/Time/Week**--Automatically calibrated through INKBIRD APP connection or manually adjust according to the Button Description.

02 **Bluetooth and battery level**--The Bluetooth icon $\ast$ is lit when the device has established a Bluetooth connection with your phone; the battery icon indicates battery life and the icon ⟩ flashes when the battery is low.

03 **Real-time ambient temperature**--Long press the ℃/℉ button to switch between ℃ and ℉.

04 **Real-time relative humidity**--Measures from 0%RH to 99%RH, with a display resolution of 1% (non-condensing state).

05 **Comfort level indicator**--The temperature comfort level is set to 20℃ to 26℃ by default, and the humidity comfort level is set to 30% to 60% by default.

*NOTE: This comfort level is recommended by the EPA and can be changed if required via the APP settings page
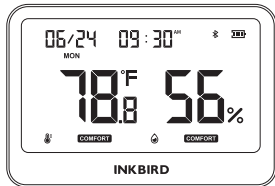
Focusing on temperature and humidity (TH Mode)

Click the button once
◄ to change the display ►
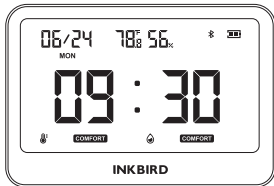
Focusing on time (Time Mode)

If you are mainly interested in temperature and humidity information, select TH mode; if you are mainly interested in time, select Time mode.

05

Product Name: Smart Thermo-Hygrometer

Brand Model:INKBIRD ITH-21-B

Power:2*AA/3.0V（batteries included）

Battery life:15 months

Bluetooth-enabled distance:80m/262ft（No obstacles）

Temperature measurement range	-20℃—60℃ (-4°F—140°F)
Temperature measurement accuracy	±0.2℃(±0.36°F)
Temperature display accuracy	0.1℃(0.1°F)
Humidity measurement range	0-99%
Humidity measurement accuracy	±2%（non-condensing）
Humidity display accuracy	1%

(MAX/MIN) Click once to display the Max and Min values;
Press and hold for 5 seconds to clear the Max and Min records.

(℃/℉) Click once to change the screen display;
Press and hold for 5 seconds to switch between ℃ and ℉.
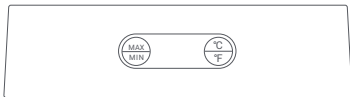
(MAX/MIN) (℃/℉) Press and hold both buttons simultaneously for 5 seconds to enter the time setting;

In the time setting mode:
• Click the left or right button to adjust the number.
Note: Click the left button to increase the number; click the right button to decrease the number; press and hold to quickly adjust the number.

- Simultaneously press both buttons once to enter the next setting item.
- The setting sequence is Year--Month--Day--Hour--Minute.
- When the setting is complete, wait 5 seconds to exit the time setting.

Note: A more convenient way to synchronize the time is to connect the device to the INKBIRD app and the time will be automatically calibrated.

07 APP Installation & Connection

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.

NOTE:

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

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

3.The device supports a 2.4GHz Wi-Fi router only（with IBS-M2S BLE WiFi gateway）.

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

1.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.

2.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 Bluetooth connection. Make sure the device is placed as close as possible to the smartphone while connecting.

08 *APP Function*

The INKBIRD app allows you to view temperature, humidity, VPD and dew point data on your smartphone, use the interactive historical data graph, export data, calibrate temperature and humidity, set comfort levels, set alarms, view alarm records, connect the gateway, upgrade firmware and more.

For more intelligent remote monitoring and alarm notifications, the unit can be connected to a WiFi gateway (IBS-M2S BLE). When you get a IBS-M2S BLE WiFi gateway, you can select 'Connect the gateway' from the 'Set' page of the app and follow the instructions to complete the gateway connection.
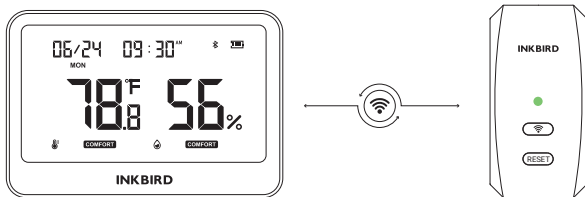
10 Precautions

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.This product is not waterproof. Do not immerse its air outlet into water.

e.This product measures temperature from -20℃ to 60℃ (-4℉ to 140℉) and is not suitable for use in any environment outside this measurement range.

f.This product measures humidity from 0%RH to 99%RH. Please keep it away from high-humidity environments.

Fault Phenomenon	Possible Reason	Solution
Screen shows low battery icon or no display	The batteries are exhausted.	Replace the batteries.
No screen display	The batteries were installed upside down.	Reinstall the batteries.
Screen shows "H"	The temperature is higher than 60℃/140℉.	Place the product in an environment within a normal temperature measurement range.
Screen shows "L"	The temperature is lower than -20℃/-4℉.	
Water waves appear on the screen	The screen has been squeezed by an external force, or caused by static electricity.	Leave the product unused for a period of time and it will automatically return to normal.
Incorrect temperature and humidity	The air outlet is blocked.	Remove the blockage.
	Water has seeped into the air outlet of the unit.	Leave the product in a dry, well-ventilated place or wipe it dry with a piece of kitchen paper.

Fault Phenomenon	Possible Reason	Solution
Cannot remotely view temperature or humidity data on the app	The device is not connected to the WiFi gateway.	Only when your ITH-21 is connected to the INKBIRD IBS-M2S (BLE) gateway (sold separately) can you view the temperature or humidity data remotely.
Incorrect temperature or humidity readings from the thermo-hygrometer	It may be affected by the harsh environment.	Open the INKBIRD app, enter the setting page, and calibrate the temperature and humidity readings.
Cannot connect Bluetooth	Make sure Bluetooth is enabled on your smartphone.	
	In the INBIRD app, click to search for nearby devices and add this device, rather than adding it from the Bluetooth device list.	
	Please keep your smartphone within 80 meters (262 feet) of the product.	
	Please keep your smartphone as close to the product as possible.	

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.

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. 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.

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.

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.

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.

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.

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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