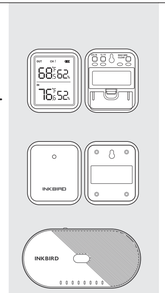
成品尺寸10cm *12cm 9折页 黑白印刷

INKBIRD

Wireless ITH-20R Temperature-Humidity Sensor with IBS-M1 WiFi Gateway



User Manual

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.

1 Overview

This combo of ITH-20R Wireless Temperature-Humidity Sensor and IBS-M1 WiFi Gateway can enable you to monitor the outdoor temperature and humidity through the indoor thermometer of ITH-20R and also realize remote monitoring through a smartphone with the WiFi gateway networking to check history and receive alert notifications.

2 Technical Specifications

IBS-M1 WiFi Gateway:

- Input Voltage: DC 5V, 1000mAh
- Maximum Wireless Connection Distance: Up to 300ft without interferences

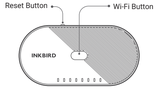
- Number of Devices Supported: max 50 outdoor sensors of ITH-20R at the same time

ITH-20R Temperature-Humidity Sensor:

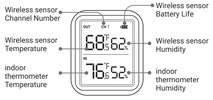
- Battery：2XAAA 1.5V (Indoor thermometer/Wireless sensor)
- Transmission Distance：Up to 300ft without interferences
- Number of Devices Supported: max 3 wireless sensors simultaneously supported by the indoor thermometer
- Temperature Measurement Range of indoor thermometer: 0℃~60℃ (32 ℉~140℉)
- Temperature Measurement Range of wireless sensor：-40℃~70℃ (-40 ℉~158℉)
- Temperature Display Accuracy：0.1℃ (0.1℉)
- Temperature Measurement Accuracy：±1.0℃ (±1.8℉)
- Humidity Measurement Range：0%~100%
- Humidity Measurement Accuracy：±3%
- Humidity Display Accuracy：1%
- Data Sampling Interval：10 seconds
- The interval for recording the indoor thermometer's maximum and minimum temperature and humidity values can be ALL-TIME or 24 hours. ALL-TIME or 24-HOUR recording starts from the power-on time or the last clearing the maximum and minimum values.
- The indoor thermometer displays "HH.H" or"LL.L" when the detected value is out of range.
- Warranty: 1 year

3 Product Diagram

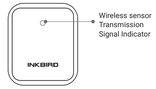
IBS-M1 WiFi Gateway



ITH-20R indoor thermometer (receiver)

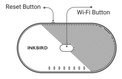


ITH-20R Wireless sensor



4 Key Definitions

IBS-M1 WiFi Gateway



Reset Button:

Press and hold the RESET button for more than 5 seconds to reset the registration of all sensors. The user should take out the batteries of the ITH-20R Wireless sensors and install

them again, and be sure to put all sensors as close as possible to the IBS-M1 WiFi Gateway to re-establish the connection and complete the registration.

Wi-Fi Button:

Press and hold the WiFi button for more than 5 seconds to reset WiFi and pair it with the network again.

ITH-20R Indoor Monitor (receiver)



CH/R Button:

a. When there are multiple Wireless sensors, press the CH/R button to switch the current Wireless sensor channel (CH1/CH2/CH3) and fix it on the current channel. When switching to CH8, after 5 seconds, it enters the channel automatic scrolling mode, and each channel will be displayed for 5 seconds.

b. Press and hold the CH/R button for 5 seconds to reset the synchronization of the indoor thermometer and all Wireless sensors. After

that, the user needs to take out the batteries of the Wireless sensors and reinstall them to sync data with the indoor thermometer. The first 2 minutes after the Wireless sensor is turned on is the synchronization time between the indoor thermometer and the Wireless sensor. When synchronizing, put the outdoor sensor as close as possible to the indoor thermometer.

°C/°F Button:

a. In a normal working state, press the °C/°F button to switch the temperature unit between °Cand °F.

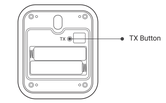
b. When the maximum and minimum temperature/humidity values are displayed, press the °C/°F button to switch the recording interval of the maximum and minimum temperature/humidity between ALL-TIME and 24-Hour.

MAX/MIN/CLEAR Button:

a. Short press the MAX/MIN/CLEAR button to display the maximum and minimum temperature/humidity values. If there is no other operation within 30 seconds, the screen will return to display the current temperature and humidity.

b. Press and hold the MAX/MIN/CLEAR button for 5 seconds to clear all records of maximum and minimum temperature/humidity values and start a new record.

ITH-20R Wireless sensor (transmitter)



TX Button:

Press the TX button to send temperature and humidity data to the Wireless sensor. After data are sent successfully, the red light on the Wireless sensor will flash once.

5 APP Installation & Connection

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.

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

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



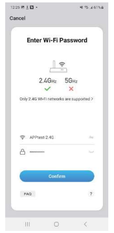
5.3.1 Open the app and click "+" to select the IBS-M1 to start the connection.



5.3.2 Plug into the USB power supply to correctly start it up and click Next Step.



5.3.3 Press the button on the device and hold until the WiFi indicator enters the fast flashing state. Then select Fast Flashing to connect. After that, click Next Step.



5.3.4 Select a WiFi network to connect, enter the password, then click Confirm to enter automatic networking.



5.3.5 The App is automatically pairing with the device.

NOTE: If the pairing fails, unplug the power plug and restart the device, then repeat steps 5.3.1–5.3.6 to try again.



5.3.6 Paring is successful.

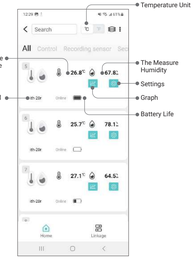
5.4 Add ITH-20R Wireless sensors

a)Firstly, plug in the IBS-M1 WiFi Gateway, install the battery of the Wireless sensor of ITH-20R, and start it up correctly. Then follow the above steps to establish the App connection. If the app connection is already done, skip this step.

b)Secondly, install the battery of the Wireless sensor of ITH-20R, and start it up correctly. Put it as close as possible to the IBS-M1 WiFi Gateway and ITH-20R indoor thermometer.

c)The Wireless sensor sub-devices of ITH-20R will automatically establish a connection. The user can view the added sub-devices through the phone APP and the indoor thermometer of ITH-20R, as shown in the figure below. Note that if adding the device fails, take out the battery of ITH-20R and repeat steps a–c to complete the addition.





6 Important Notes/Warning

1. Please do not disassemble the product if you are not a professional.
2. Be sure that the sensor is not covered with dust as dust may lead to inaccurate measurements.
3. Do not use alcohol to clean the sensor.

7 Troubleshooting Guide

Problems	Possible Solutions
The WiFi gateway cannot connect to the network	a. Make sure the 2.4GHz WiFi signal is stable, and place the WiFi gateway as close to the router as possible. b. Make sure there are as few barriers as possible between the WiFi gateway and the router. c. Enable Bluetooth and positioning functions, allow the App to obtain location information, and allow the local network (iOS System).

Unable to add sub-devices	Reset the WiFi gateway and the registration of ITH-20R sensors. Remove and reinstall the battery of the ITH-20R Wireless sensor, and then try again to add sub-devices.
Incorrect temperature/ humidity detection	Leave the sensor in a ventilated place for one day, and be careful not to block the sensing area.

8 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.

9 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.

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