

- Manuals.plus /
- > [Inkbird](#) /
 - > INKBIRD IBS-M2 Wi-Fi Gateway User Manual

Inkbird IBS-M2-CA

INKBIRD IBS-M2 Wi-Fi Gateway User Manual

Model: **IBS-M2-CA**
Brand: **Inkbird**

1. INTRODUCTION

The INKBIRD IBS-M2 Wi-Fi Gateway is a versatile device designed for remote monitoring of temperature and humidity. It acts as a central hub, connecting various INKBIRD Bluetooth and wireless sensors to your Wi-Fi network, allowing you to monitor environmental conditions from anywhere via the INKBIRD app on your smartphone. The device features a large LCD screen for direct readings and supports multiple sensor connections, real-time alerts, and historical data logging.



Figure 1.1: INKBIRD IBS-M2 Wi-Fi Gateway and its accompanying mobile application interface.

This gateway is ideal for ensuring comfortable living environments and for applications requiring precise temperature and humidity control, such as wine cellars, grow tents, and cheese rooms. Its compact size allows for placement in various locations.

Bedroom

Pay close attention to temperature and humidity, provide a comfortable home for our family



Living Room



Basement



Wine Cellar



Figure 1.2: Example applications of the IBS-M2 in different household environments.

2. KEY FEATURES

- **Multifunctional Wi-Fi Gateway:** Connects with INKBIRD Bluetooth and wireless devices for remote monitoring and control. Also monitors real-time temperature and humidity directly.
- **Multiple Connections:** Supports up to 9 sub-devices simultaneously.
- **Large LCD Screen:** Displays current temperature and humidity clearly. Features a channel display mode (CH0) to cycle through readings from connected sub-devices.
- **Real-time Alerts:** Customizable high/low temperature/humidity alerts with audible beeps on the device and push notifications to your smartphone.
- **Data Logging:** Stores up to 1 year of historical data, accessible via the app. Data can be exported.
- **Calibration Function:** Allows for temperature and humidity calibration via the app.
- **Portable Size:** Compact design for flexible placement.

Wi-Fi Gateway with Thermo-Hygrometer Sensor



App Remote
Control



Multi-Sensor
Monitoring



Temperature
& Humidity



Alarms &
Notifications



Calibration
Function



°C/°F
Switch

Figure 2.1: Visual representation of the key features of the IBS-M2.

3. SETUP GUIDE

3.1 Package Contents

Please check the package contents upon unboxing. The standard package includes:

- 1 x INKBIRD IBS-M2 Wi-Fi Gateway
- 1 x USB-A to USB-C Power Cord
- 1 x Power Adapter
- 1 x User Manual (this document)

3.2 Device Overview

Familiarize yourself with the main components of the IBS-M2 gateway:

- **LCD Screen:** Displays temperature, humidity, Wi-Fi status, battery level, and channel information.
- **USB-C Port:** For power input.
- **Buttons:** Typically for cycling display modes or basic settings (refer to specific button functions in operation section).
- **Indicator Lights:** For Wi-Fi status and connection status.



Figure 3.1: Physical dimensions and appearance of the IBS-M2 gateway.

3.3 Powering On

1. Connect the provided USB-A to USB-C power cord to the IBS-M2 gateway's USB-C port.
2. Plug the USB-A end of the cable into the power adapter.
3. Plug the power adapter into a standard wall outlet. The device will power on automatically.

3.4 App Installation

Download the "INKBIRD" app from your smartphone's app store (Google Play Store for Android or Apple App Store for

iOS). Alternatively, scan the QR code provided in the quick start guide (if available) to directly download the app.

3.5 Connecting to Wi-Fi

1. Ensure your smartphone is connected to a 2.4GHz Wi-Fi network. The IBS-M2 only supports 2.4GHz Wi-Fi.
2. Open the INKBIRD app and register/log in to your account.
3. Tap the "+" icon in the top right corner of the app to add a new device.
4. Select the IBS-M2 from the list of available devices.
5. Follow the on-screen instructions in the app to connect the gateway to your Wi-Fi network. This typically involves entering your Wi-Fi password and confirming the device's status.
6. Once connected, the Wi-Fi icon on the IBS-M2's LCD screen will become stable.

3.6 Pairing Sub-Devices

The IBS-M2 can connect to up to 9 INKBIRD Bluetooth and wireless sensors. To pair a sub-device:

1. Ensure the sub-device is powered on and within range of the IBS-M2 gateway.
2. In the INKBIRD app, navigate to the IBS-M2 device interface.
3. Look for an option to "Add Sub-device" or "Scan for Devices".
4. The app will scan for nearby compatible INKBIRD sensors. Select the sensor you wish to add from the discovered list.
5. Follow any specific pairing instructions for the sub-device (e.g., pressing a button on the sensor).
6. Once paired, the sub-device's readings will appear on the IBS-M2's LCD screen (in CH0 mode) and within the app.

Smart Wi-Fi Gateway for Smart Home Living

Simultaneously connect and monitor up to 9 INKBIRD wireless/Bluetooth thermometers and hygrometers through a smartphone



Figure 3.2: The IBS-M2 gateway's capability to connect with multiple INKBIRD sensors.

4. OPERATION

4.1 Monitoring Temperature and Humidity

The IBS-M2 provides real-time temperature and humidity readings both on its LCD screen and through the INKBIRD app.

- **On Device:** The large LCD screen displays the current temperature and humidity. You can switch between Celsius and Fahrenheit using the button on the device.
- **Via App:** The INKBIRD app provides a comprehensive view of current readings, historical data (up to 1 year), and maximum/minimum/average values for all connected devices.

Remote Monitoring from Smartphone

We can monitor everything about the IBS-M2 and its connected devices on a smartphone via a 2.4GHz Wi-Fi connection: view current temperature and humidity, check maximum/minimum/average values, see historical data, etc.



Figure 4.1: Remote monitoring of temperature and humidity via the INKBIRD smartphone application.

4.2 LCD Screen Display Modes

The IBS-M2's LCD screen can display information in different modes:

- **Default Mode:** Shows the gateway's internal temperature and humidity, along with the readings from a selected sub-device (e.g., "OUT 3").
- **CH0 Mode:** When selected, the screen will automatically cycle through the temperature and humidity readings of all connected sub-devices for 3 seconds each. This allows for quick overview of all sensors without needing the app.

Ultra-Large LCD Screen

It features a thermo-hygrometer function and an ultra-large LCD screen, letting us know the current temperature and humidity detected by it and its connected devices at a glance.



Figure 4.2: The IBS-M2's ultra-large LCD screen for clear display of environmental data.

4.3 Real-time Alerts and Notifications

You can set custom high and low temperature/humidity alert values for the IBS-M2 and its connected sub-devices through the INKBIRD app.

1. In the app, select the device for which you want to set alerts.
2. Navigate to the alert settings.
3. Set your desired high and low thresholds for temperature and humidity.
4. When the detected value exceeds or falls below the preset threshold, the associated device will emit an audible beep, and your smartphone will receive a push notification.

Receive alert notifications anytime, anywhere

We can set multiple alarming values and check all alarm records on the app. When the temperature/humidity alarm is triggered, the device will beep to remind us and send a notification message through the app.



Figure 4.3: Example of a real-time alert notification received on a smartphone.

4.4 Data Storage and Export

The IBS-M2 gateway stores up to 1 year of historical temperature and humidity data for all connected devices. This data can be viewed as graphs within the INKBIRD app.

- To view historical data, select the desired device in the app and navigate to the history section.
- The app also supports data exporting via email, allowing you to analyze the data on a computer or other devices.



Figure 4.4: Data storage and export capabilities of the IBS-M2.

4.5 Calibration Function

If you find that the temperature or humidity readings are inaccurate, you can calibrate the device through the INKBIRD app:

1. In the app, select the IBS-M2 or the specific sub-device you wish to calibrate.
2. Go to the device settings and locate the "Temperature Calibration" or "Humidity Calibration" option.
3. Adjust the offset value as needed to match a known accurate reference.

5. MAINTENANCE

5.1 Cleaning

To maintain the accuracy and longevity of your IBS-M2 gateway:

- Wipe the device with a soft, dry cloth.
- Do not use abrasive cleaners, alcohol, or corrosive liquids, as these may damage the device.
- Ensure no liquid enters the device's openings.

5.2 Storage

When not in use for extended periods, store the device in a cool, dry place, away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not powering on.	Power adapter or cable issue; no power from outlet.	Check power connections. Try a different USB power adapter or outlet. Ensure the power cable is securely connected.
Cannot connect to Wi-Fi.	Incorrect Wi-Fi password; 5GHz Wi-Fi network; device too far from router; network interference.	Ensure correct 2.4GHz Wi-Fi password. Move the gateway closer to the router. Restart your router and the IBS-M2.
Sub-device not pairing.	Sub-device out of range; sub-device battery low; sub-device not in pairing mode.	Move sub-device closer to the gateway. Replace sub-device batteries if applicable. Refer to the sub-device's manual for pairing instructions.
Inaccurate readings.	Sensor interference; need for calibration.	Ensure sensors are not placed in direct sunlight or near heat/cold sources. Use the calibration function in the app to adjust readings.
No alerts received.	Alert thresholds not set; app notifications disabled; device not connected to Wi-Fi.	Verify alert settings in the app. Check phone notification settings for the INKBIRD app. Ensure the gateway has a stable Wi-Fi connection.

7. SPECIFICATIONS

Attribute	Value
Model Number	IBS-M2-CA
Brand	Inkbird
Connectivity	Wi-Fi (2.4GHz), Bluetooth (for sub-devices), Wireless (for sub-devices)
Max Connected Devices	9
Temperature Accuracy	±1.0 °C
Operating Humidity	0% to 99%
Voltage	5 Volts

Attribute	Value
Data Storage	Up to 1 year
Color	White
Dimensions (Approx.)	10.8 cm x 6.4 cm x 3.9 cm (4.25 in x 2.52 in x 1.53 in)
UPC	723476905524

8. WARRANTY AND SUPPORT

Inkbird provides a standard warranty for its products. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Inkbird website.

For technical support, troubleshooting assistance, or any inquiries regarding your IBS-M2 Wi-Fi Gateway, please contact Inkbird Customer Service through their official website or the contact information provided in the product packaging.

Official Website: www.inkbird.com

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Email

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Question

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