

Inkbird IAM-T2

INKBIRD Smart CO2 Monitor IAM-T2 User Manual

Model: IAM-T2 | Brand: Inkbird

1. INTRODUCTION

The INKBIRD Smart CO2 Monitor IAM-T2 is a versatile 3-in-1 device designed to accurately measure carbon dioxide (CO2) concentration, temperature, and humidity in indoor environments. Equipped with an NDIR sensor and Bluetooth 5.0 connectivity, it provides real-time data and allows for remote monitoring and data management via a mobile application. This manual provides detailed instructions for setting up, operating, and maintaining your IAM-T2 monitor.



Figure 1: INKBIRD Smart CO2 Monitor IAM-T2 in an indoor setting.

2. PRODUCT OVERVIEW

2.1 Key Features

- **3-in-1 Monitoring:** Real-time display of CO2 concentration, temperature, and humidity.

- **NDIR Sensor:** Utilizes a Non-Dispersive Infrared (NDIR) sensor for accurate CO2 detection.
- **Bluetooth 5.0 Connectivity:** Seamless connection to your mobile phone within an unobstructed range of 100 meters for remote monitoring.
- **Dual Alarm System:** Features sound and indicator light alarms for unhealthy CO2 levels.
- **Long-Lasting Battery:** Built-in 3000 mAh lithium battery provides over 6 months of continuous use on a full charge.
- **Intelligent Data Management:** Saves 30 days of offline data and supports long-term data storage and export for up to one year via the mobile app.
- **Flexible Placement:** Can be placed upright on a desktop using its foldable stand or hung on a wall.
- **Smart Memory Function:** The device automatically saves its configuration, eliminating the need for resetting after shutdown or power failure.

2.2 Components

- IAM-T2 Smart CO2 Monitor
- USB Type-C Charging Cable
- User Manual

3-in-1 Monitoring

Understand the air quality in 1 second

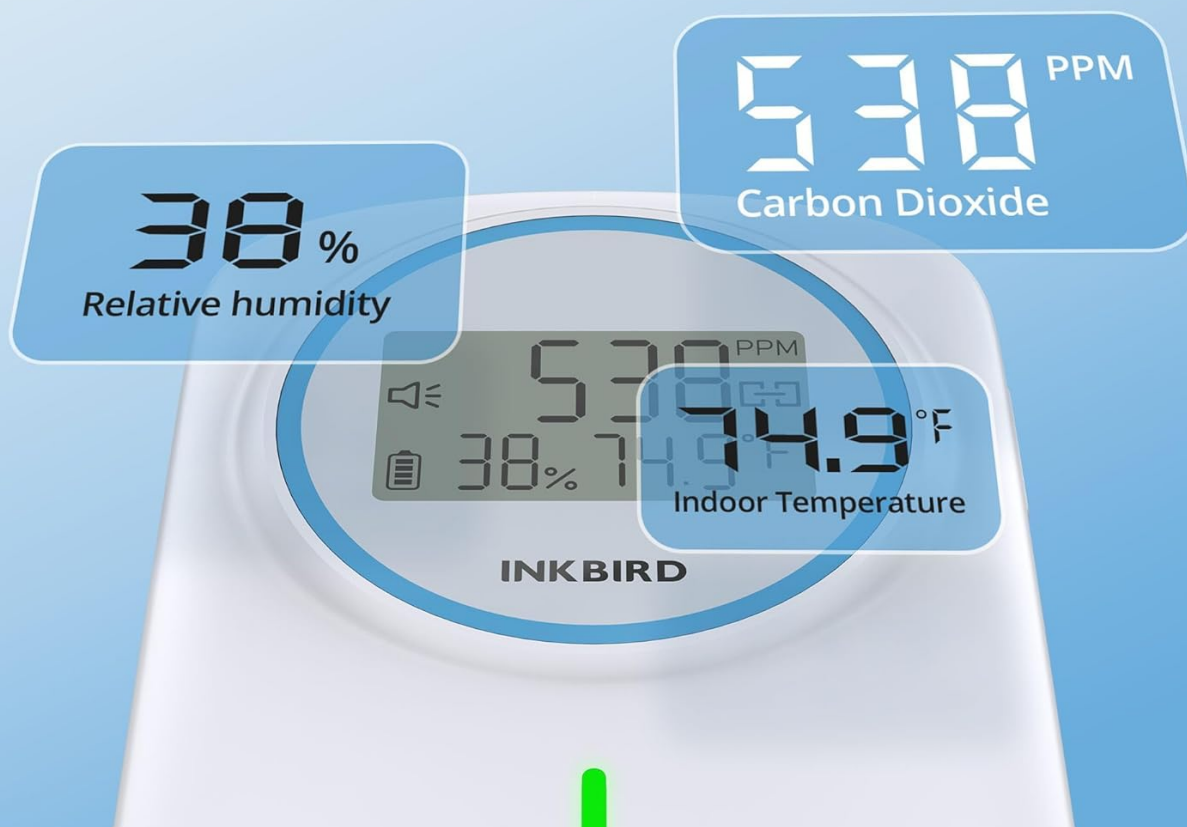


Figure 2: The IAM-T2 display showing CO2, humidity, and temperature.



Figure 3: Internal view highlighting the NDIR and Sensirion precision sensors.

3. SETUP

3.1 Charging the Device

Before first use, fully charge the IAM-T2 monitor. Connect the provided USB Type-C cable to the device and a DC5V/1A power adapter (not included). Ensure the power switch on the device is in the "ON" position for charging to occur. A full charge takes approximately 6 hours.

3.2 Power On/Off

Locate the ON/OFF switch on the side of the device. Slide the switch to "ON" to power on the monitor. Slide it to "OFF" to power off.

3.3 Initial Placement

Place the monitor in the desired location. It can stand upright using its integrated foldable stand or be mounted on a wall using the hanging hole. Ensure the device is placed in an area where air can circulate freely for accurate readings.

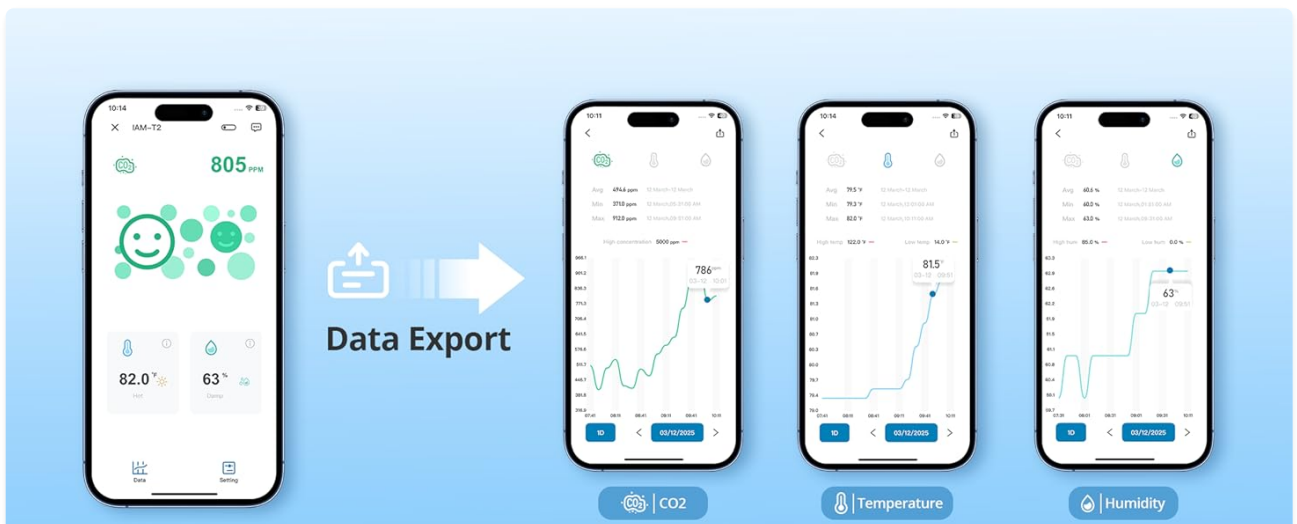


Figure 4: Battery and charging details.

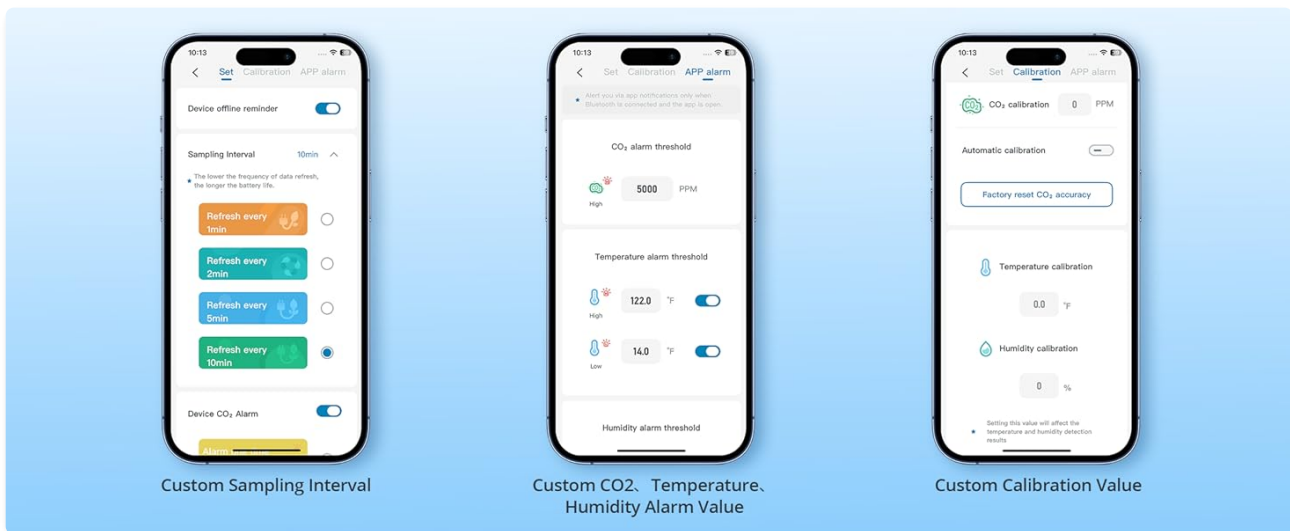


Figure 5: Flexible placement options for the IAM-T2.

4. APP CONNECTION

The INKBIRD app allows you to monitor and manage your IAM-T2 device remotely. Follow these steps to connect your monitor to the app:

1. Download the INKBIRD app from your smartphone's app store.
2. Ensure Bluetooth is enabled on your smartphone.
3. Open the INKBIRD app and tap the "+" icon to add a new device.
4. Select the IAM-T2 from the list of detected devices and follow the on-screen instructions to complete the pairing process.

Support Bluetooth 5.0 Technology



Figure 6: Steps for connecting the IAM-T2 to the INKBIRD app.

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Video 1: Bluetooth CO₂ Monitor Operation Video. This video demonstrates the process of connecting the IAM-T2 to the mobile app and basic operation.

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Video 2: INKBIRD Smart 3-in-1 CO2 Monitor with Bluetooth. This video provides an overview of the monitor's features and Bluetooth capabilities.

5. OPERATING INSTRUCTIONS

5.1 Understanding the Display

The LCD screen displays the current CO2 concentration in parts per million (ppm), temperature in Celsius or Fahrenheit, and relative humidity percentage. An indicator light on the front of the device changes color to visually represent air quality:

- **Green Light:** Good air quality (<1000 ppm CO2)
- **Yellow Light:** Medium air quality (1000-1400 ppm CO2)
- **Red Light:** Unhealthy air quality (>1400 ppm CO2)

Accurate Detection with Swedish Precision Sensor

NDIR Sensor + Sensirion Sensor

±5% CO2 Accuracy		±0.36°F Temp Accuracy		±1.8% Humidity Accuracy
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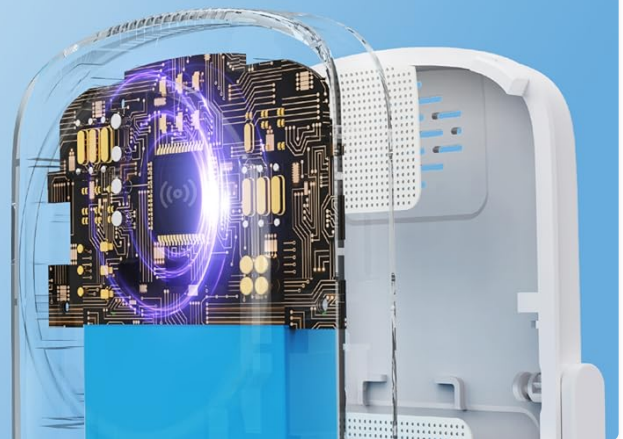


Figure 7: Visual representation of the dual alarm system.

6. DATA MANAGEMENT

The IAM-T2 monitor stores up to 30 days of offline data directly on the device. When connected to the INKBIRD app, this data is synchronized and can be viewed as historical graphs for up to one year. The app also allows you to export data in CSV format for further analysis.



Figure 8: Data viewing and export options in the INKBIRD app.

7. ALARMS AND CALIBRATION

7.1 Setting Alarm Values

You can customize CO₂, temperature, and humidity alarm thresholds through the INKBIRD app. When a monitored value exceeds the set threshold, the device will trigger a sound and light alarm, and the app will send a notification (if connected and open).

7.2 Calibration

The IAM-T2 supports calibration for CO₂, temperature, and humidity readings. You can perform manual calibration or use the automatic calibration feature via the app to ensure accuracy. Refer to the app's calibration section for detailed instructions on adjusting these values.

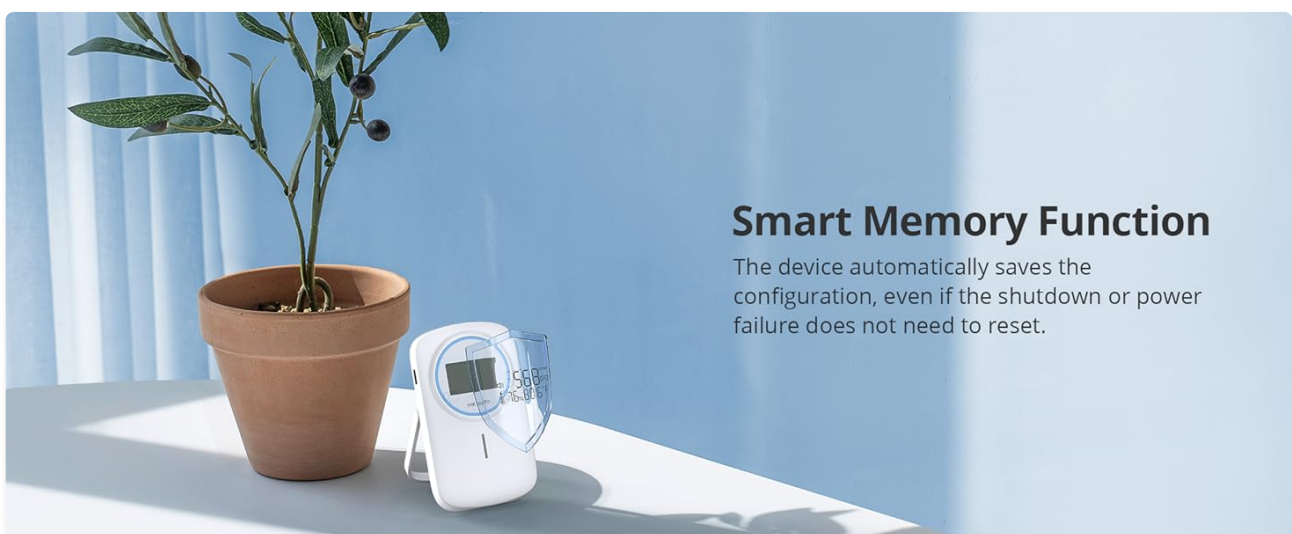


Figure 9: App settings for alarms and calibration.

8. SPECIFICATIONS

Feature	Specification
Model Number	IAM-T2
CO2 Range	0-9999 ppm
CO2 Accuracy	±40 ppm (±5%)
Temperature Range	-50°F to 212°F (-45°C to 100°C)
Temperature Accuracy	±0.36°F (±0.2°C)
Humidity Range	0-99% RH
Humidity Accuracy	±1.8% RH
Battery Capacity	3000 mAh Lithium Ion
Battery Life	6+ months (depending on sampling interval)
Connectivity	Bluetooth 5.0
Dimensions	7.05 x 4.25 x 1.46 inches
Weight	6.4 ounces (0.18 kg)
Power Source	Battery Powered (DC5V/1A with USB Type-C)

9. TROUBLESHOOTING

- **Device not charging:** Ensure the power switch is in the "ON" position while charging. Use the provided USB-C to USB-A cable with a traditional 5V/1A charger. Some USB-C to USB-C chargers may not be compatible.
- **Bluetooth connection issues:** Ensure Bluetooth is enabled on your phone and the device is within range (up to 100m unobstructed). Restart both the device and the app if connection fails.
- **Inaccurate readings:** Perform a calibration via the INKBIRD app. Ensure the device is placed in an area with good air circulation and away from direct heat sources or extreme humidity.
- **Alarm not sounding/notifying:** Check alarm settings in the app to ensure thresholds are correctly set and the alarm function is enabled. For app notifications, ensure the app is open and connected to the device.

10. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or immerse the device in

water.

- **Storage:** Store the device in a cool, dry place when not in use. Avoid extreme temperatures and direct sunlight.
- **Firmware Updates:** Periodically check the INKBIRD app for available firmware updates to ensure optimal performance and new features.

11. WARRANTY AND SUPPORT

The INKBIRD Smart CO2 Monitor IAM-T2 comes with a standard manufacturer's warranty. For detailed warranty information, product support, or technical assistance, please refer to the warranty card included in the packaging or visit the official Inkbird website. You can also contact Inkbird customer service directly through the contact information provided in the app or on their website.