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Inkbird Inkbird-IAQM

Inkbird 10-in-1 Air Quality Monitor

Model: Inkbird-IAQM User Manual



1. INTRODUCTION

The Inkbird 10-in-1 Air Quality Monitor (Model Inkbird-IAQM) is designed to provide comprehensive indoor air quality analysis. This device continuously tracks ten key environmental parameters: Carbon Dioxide (CO2), Particulate Matter (PM2.5/PM10), Total Volatile Organic Compounds (TVOC), Formaldehyde (HCHO), Air Quality Index (AQI), temperature, humidity, and time/date. It offers real-time monitoring with high accuracy, smart WiFi integration for remote access, and customizable alerts to help maintain a healthy indoor environment.

This manual provides detailed instructions for the proper setup, operation, maintenance, and troubleshooting of your Inkbird Air Quality Monitor.

2. PRODUCT OVERVIEW

Key Features

- **10-in-1 Air Analysis:** Monitors CO2, PM2.5/PM10, TVOC, HCHO, AQI, temperature, humidity, time, and date.
- **High Accuracy:** Provides readings with a typical accuracy of $\pm 5\%$.
- **Smart WiFi Integration:** Connects to 2.4GHz WiFi for remote monitoring via the INKBIRD app.
- **Long-Term Data Storage:** Stores over 700 days of historical data, exportable as CSV reports.
- **Proactive Dual Alarms:** Customizable thresholds for CO2, PM2.5, and AQI with instant light and sound warnings.
- **6.1" IPS Display:** Sunlight-readable screen with auto-brightness, 6 display modes, $^{\circ}\text{C}/^{\circ}\text{F}$ switching, and 12/24hr clock.
- **10-Hour ECO Mode:** Energy-saving mode for extended battery life.
- **Flexible Installation:** Supports magnetic wall mount and desk stand options with cable management.

Components and Controls

Familiarize yourself with the device's components and control buttons as illustrated below:

INKBIRD 10-1 Air Quality Monitor



Figure 1: Inkbird 10-in-1 Air Quality Monitor with labeled components and control buttons.

- 1. ECO Mode & Power On Button:** Press and hold to power on/off. Short press to toggle ECO mode.
- 2. Upper & WiFi Button & Backlight:** Used for navigation, initiating WiFi connection, and adjusting backlight.
- 3. Lower & Alarm & °C/°F Switch:** Used for navigation, setting alarms, and switching temperature units.
- 4. Set Button & Warning Light Bar:** Used to enter settings menu. The light bar indicates air quality status.
- 5. Reset Button:** Recessed button to reset the device (use a pin).
- 6. Charging Port:** USB-C port for power and charging.

3. SETUP

3.1 Initial Charging and Power On

1. Connect the provided USB-C cable to the charging port (6) on the monitor and plug the other end into a

compatible USB power adapter (not included).

2. Allow the device to charge fully before first use, or keep it connected for continuous power. The built-in 2700mAh Li-Po battery provides up to 10 hours of operation in ECO mode.
3. Press and hold the ECO Mode & Power On button (1) for a few seconds until the display illuminates.



USB Charging Design

Built-in 2700mAh Li-Po Battery lasts 80 hours in ECO mode



Figure 2: The Inkbird Air Quality Monitor connected via USB-C for charging or continuous power.

3.2 WiFi Connection and App Setup

To enable remote monitoring and data logging, connect your monitor to the INKBIRD app via WiFi.

1. Download the INKBIRD app from your smartphone's app store (iOS or Android).
2. Register or log in to your INKBIRD account.
3. On the monitor, press and hold the Upper & WiFi Button (2) to enter WiFi pairing mode. The WiFi icon on the display will flash.
4. In the INKBIRD app, follow the on-screen instructions to add a new device. Ensure your phone is connected to a 2.4GHz WiFi network.
5. Once connected, the WiFi icon on the monitor's display will become solid. You can now monitor air quality remotely and access historical data.

Remote Monitoring via WiFi Connection

Up to 12 months of historical data can be viewed and exported



Figure 3: Remote monitoring via the INKBIRD app, showing historical data graphs.

3.3 Placement

For optimal performance, place the monitor in a central location within the room you wish to monitor, away from direct airflow from vents, windows, or doors. Avoid placing it near heat sources, strong electromagnetic fields, or in areas with high humidity unless specifically monitoring those conditions.

4. OPERATING INSTRUCTIONS

4.1 Understanding the Display

The 6.1-inch IPS display provides a clear overview of all monitored parameters. The display can be customized with six different modes. The main screen typically shows:

- **Temperature (TEMP):** In °C or °F.
- **Humidity (HUMI):** As a percentage.
- **CO2:** In parts per million (ppm).

- **HCHO:** Formaldehyde concentration in mg/m³.
- **TVOC:** Total Volatile Organic Compounds in mg/m³.
- **PM2.5:** Particulate Matter 2.5 in $\mu\text{g}/\text{m}^3$.
- **PM10:** Particulate Matter 10 in $\mu\text{g}/\text{m}^3$.
- **AQI:** Air Quality Index.
- **Time and Date:** Current time and date.

10-in-1 Air Quality Monitor

Your Healthy Life Companion

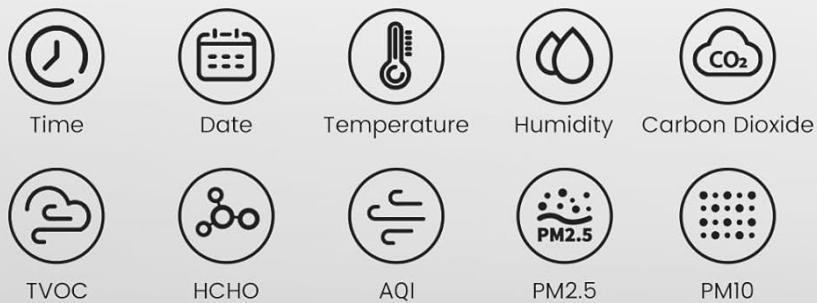


Figure 4: The monitor's display showing all 10 air quality parameters simultaneously.

4.2 Interpreting Air Quality Levels

The monitor provides visual indicators and comfort levels for key parameters to help you quickly assess air quality.

Check For The Air Quality At A Glance

CO2 Comfort Level Indicator:



CO2 Comfort Level Indicator

	Green: 400~1000ppm
	Yellow: 1001~1400ppm
	Red: 1401~5000ppm

PM2.5 Comfort Level Indicator

	Green: 0~35µg/m³
	Yellow: 36~75µg/m³
	Red: 76~1000µg/m³

AQI Comfort Level Emoticon

		0~50: (comfortable)
		51~100: (medium)
		101~500: (uncomfortable)

Figure 5: Comfort level indicators for CO2, PM2.5, and AQI, with corresponding color codes and ranges.

4.3 Setting Alarms

The monitor features a dual alarm mechanism (light and sound) that activates when air quality parameters exceed user-defined thresholds. You can set personalized safety limits for CO2, PM2.5, and AQI.

1. Press the Set Button (4) to enter the settings menu.
2. Use the Upper (2) and Lower (3) buttons to navigate to the alarm settings for CO2, PM2.5, or AQI.
3. Press the Set Button (4) again to select the parameter and adjust its threshold using the Upper (2) and Lower (3) buttons.
4. Confirm your selection by pressing the Set Button (4).

Dual Alarm Mechanism Helps Maintain A Quality Life



Tip: AQI/CO2/PM2.5 alarm values are customizable.

Figure 6: The monitor indicating high CO2 and AQI levels, triggering the dual alarm mechanism.

4.4 CO2 Calibration

For accurate CO2 readings, periodic calibration is recommended. The monitor supports easy CO2 calibration.

1. Place the monitor in a well-ventilated outdoor area for at least 10 minutes to ensure ambient CO2 levels are stable (approximately 400-450 ppm).
2. Refer to the device's on-screen menu or the INKBIRD app for the specific CO2 calibration option.
3. Follow the prompts to initiate calibration. The process may take a few minutes.

4.5 ECO Mode

To conserve battery life, short press the ECO Mode & Power On button (1) to toggle ECO mode. In this mode, the display may dim or update less frequently, but core detection functions continue.

5. MAINTENANCE

5.1 Cleaning

To ensure accurate readings and prolong the life of your monitor:

- Wipe the device with a soft, dry cloth.
- Do not use abrasive cleaners, solvents, or harsh chemicals.
- Avoid getting moisture into the sensor openings or charging port.

5.2 Software Updates

Inkbird provides free lifetime software updates for the monitor. Ensure your device is connected to WiFi and regularly check the INKBIRD app for available firmware updates to benefit from improved features and performance.

6. TROUBLESHOOTING

If you encounter issues with your Inkbird Air Quality Monitor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	Low battery or power cable issue.	Ensure the device is charged or connected to a power source. Check the USB-C cable and adapter.
Inaccurate readings.	Sensor interference, need for calibration, or environmental factors.	Ensure proper placement away from direct airflow. Perform CO ₂ calibration as described in Section 4.4. Allow the device to stabilize for 5-10 minutes after powering on.
Cannot connect to WiFi.	Incorrect WiFi password, 5GHz network, or distance from router.	Verify WiFi password. Ensure your router is broadcasting a 2.4GHz network. Move the monitor closer to the WiFi router. Restart the monitor and try pairing again.
Alarm triggers frequently.	High pollutant levels or alarm thresholds set too low.	Ventilate the area. Review and adjust alarm thresholds in the settings menu (Section 4.3) if necessary.
Display is dim or unresponsive.	ECO mode active or device malfunction.	Short press the ECO Mode & Power On button (1) to exit ECO mode. If unresponsive, try resetting the device using a pin in the Reset button (5).

If the problem persists, please contact Inkbird customer support for further assistance.

7. SPECIFICATIONS

Parameter	Value
Model Number	Inkbird-IAQM
Measurement Accuracy	±0.5%
Item Weight	1.5 pounds (approx. 680g)

Parameter	Value
Package Dimensions	9.06 x 5.08 x 2.91 inches (approx. 23 x 12.9 x 7.4 cm)
Color	Black
Included Components	1 air quality monitor
Battery	Built-in 2700mAh Li-Po (No external batteries required)

INKBIRD 10-1 Air Quality Monitor



Figure 7: Dimensions and weight of the Inkbird 10-in-1 Air Quality Monitor.

8. WARRANTY AND SUPPORT

Inkbird is committed to providing high-quality products and customer service.

- **Lifetime Software Updates:** Benefit from continuous improvements and new features through free lifetime software updates.
- **24/7 Air Quality Consultation:** For any questions or concerns regarding your air quality monitor or indoor air quality, Inkbird offers 24/7 consultation services.

For technical support, warranty claims, or further assistance, please visit the official Inkbird website or contact their customer service team directly. Contact information can typically be found on the product packaging or the Inkbird official website.

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