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› INKBIRDPLUS 6-in-1 Indoor Air Quality Monitor User Manual

INKBIRDPLUS PTH-9A

INKBIRDPLUS 6-in-1 Indoor Air Quality Monitor

Model: PTH-9A

INTRODUCTION

The INKBIRDPLUS 6-in-1 Indoor Air Quality Monitor is designed to provide comprehensive insights into your indoor environment. Equipped with professional detection sensors, it accurately measures CO2 concentration, PM2.5, PM10, Air Quality Index (AQI), temperature, and humidity. This device features a clear color LED screen, an audible alarm for high AQI levels, and a calibration function to ensure precise readings. It is suitable for various indoor settings, including homes, offices, and specialized environments like grow tents.

PRODUCT OVERVIEW

The monitor features a user-friendly interface with a color display that shows all measured parameters at a glance. Key elements and controls are strategically placed for ease of use.



Figure 1: Front and side view of the INKBIRDPLUS PTH-9A with labeled components and dimensions.

Display Elements:

- **AQI:** Air Quality Index, displayed prominently with a color-coded ring (Green: Good, Yellow: Warning, Red: Dangerous).
- **Time/Date/Year:** Current time and date are shown on the display.
- **Buzzer:** Indicates alarm status.
- **Battery Level:** Shows the current battery charge.
- **Humidity:** Relative humidity percentage.
- **CO2:** Carbon Dioxide concentration in parts per million (ppm).
- **Temperature:** Ambient temperature in Celsius or Fahrenheit.
- **PM2.5:** Particulate Matter 2.5 concentration in $\mu\text{g}/\text{m}^3$.
- **PM10:** Particulate Matter 10 concentration in $\mu\text{g}/\text{m}^3$.

Buttons and Features:

- **Power Button:** Used to turn the device on/off.
- **DOWN Button (-):** Controls backlight on/off and decreases parameter values in setting mode.
- **UP Button (+):** Controls alarm on/off and increases parameter values in setting mode.
- **Hanging Hole:** Located on the back for wall mounting.

SETUP

Initial Use and Calibration:

For the most accurate readings, it is recommended to perform an initial calibration upon first use. Place the device in an open and uninhabited environment. After the device is turned off, press and hold all three buttons simultaneously. The product will enter an automatic calibration state for 200 seconds. Allow the process to complete without interruption.

Charging the Device:

The monitor is equipped with a 2400 mAh lithium-ion battery. It is recommended to use the device while it is connected to a power source via the provided USB charging cable for continuous operation. The battery level indicator on the display will show the current charge status.

3 STAGES OF AQI CONCENTRATION



Figure 2: The monitor features a convenient USB charging port.

OPERATING INSTRUCTIONS

Power On/Off:

- To power on the device, press and hold the Power button until the display illuminates.
- To power off the device, press and hold the Power button until the display turns off.

Understanding AQI Stages:

The monitor displays AQI in three distinct stages, indicated by color changes on the screen and an audible alarm for the 'Danger' stage:

- **Normal Mode (0-50):** Indicated by a green display, signifying good air quality.
- **Warning Mode (51-100):** Indicated by a yellow display, suggesting moderate air quality.
- **Danger Mode (101-500):** Indicated by a red display. When the AQI exceeds 100, the device will sound an alarm to

alert you to potentially unhealthy air conditions.

CALIBRATION FUNCTION

Power off and long press three buttons to enter calibration



Figure 3: Visual representation of AQI stages and their corresponding ranges.

Setting Time, Date, and Year:

To set the current time, date, and year on your monitor:

1. Double-click the central button (Power button) to enter the setting mode.
2. The setting sequence is year, date, then time. After setting each item, press the central button again to confirm and move to the next setting item.
3. Use the '-' button to decrease the parameter value and the '+' button to increase the parameter value.
4. Once all settings are adjusted, press the central button to save and exit the setting mode.



Figure 4: Step-by-step guide for setting the device's time and date.

Temperature Unit Switching (C°/F°):

The monitor supports switching between Celsius and Fahrenheit temperature units. Refer to the user manual for specific button combinations to toggle this setting.

Backlight On/Off:

The color display features a backlight for improved visibility. Use the '-' button to toggle the backlight on or off as needed.

CALIBRATION FUNCTION

The INKBIRDPLUS monitor includes a calibration function to maintain the accuracy of its CO2 readings. This process should be performed in a well-ventilated area, ideally outdoors, to ensure the device calibrates to ambient CO2 levels (approximately 400 ppm).

Steps for CO2 Calibration:

1. Ensure the device is powered off.
2. Take the monitor to a well-ventilated outdoor area, away from direct sources of CO2 (e.g., exhaled breath, combustion).
3. Press and hold all three buttons (Power, '-', and '+') simultaneously.
4. The monitor will enter the automatic calibration state for 200 seconds. A countdown timer will be displayed.
5. Keep the device stationary and undisturbed during the entire 200-second calibration period.
6. Once the countdown finishes, the calibration is complete, and the CO2 reading will reset to the ambient level.

CONVENIENT USB CHARGING

*2400 mAh Large-capacity Battery
Recommended to use while charging*



Figure 5: Initiating the calibration process by pressing all three buttons.

APPLICATIONS

The portable design and comprehensive sensing capabilities make the INKBIRDPLUS 6-in-1 Air Quality Monitor suitable for a wide range of indoor environments:

- **Residential Spaces:** Bedrooms, living rooms, kitchens, and cellars to ensure healthy living conditions.
- **Work Environments:** Offices and classrooms to monitor air quality for improved concentration and well-being.
- **Specialized Areas:** Grow tents, greenhouses, and wine cellars where specific environmental conditions are crucial.
- **Vehicles:** Cars and other enclosed spaces to check air quality during commutes.



Figure 6: The monitor is versatile for use in various indoor and enclosed environments.

MAINTENANCE

Cleaning:

To maintain optimal performance, regularly clean the exterior of the monitor with a soft, dry cloth. Do not use abrasive cleaners or solvents, as these may damage the display or casing. Ensure no liquids enter the device through the sensor vents.

Battery Care:

To prolong the life of the built-in lithium-ion battery, avoid fully discharging it frequently. It is recommended to keep the device plugged in during extended periods of use. If storing the device for a long time, charge it periodically to prevent deep discharge.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Inaccurate Readings (CO2, PM, Temp, Humidity)	Device not calibrated; environmental interference; sensor obstruction.	Perform CO2 calibration in a fresh air environment. Ensure sensors are clear of dust/debris. Avoid placing near heat sources or vents.
Device does not power on or hold charge	Battery fully discharged; faulty charging cable/adapter; internal battery issue.	Connect to a known good USB power source and charging cable. Allow several hours for charging. If issue persists, contact customer support.
Alarm sounds frequently or unexpectedly	High AQI levels detected; alarm sensitivity setting.	Check the display for high AQI readings and ventilate the area. Adjust alarm settings if necessary (refer to operating instructions).
Display is blank or frozen	Software glitch; low battery.	Connect to power. Press and hold the power button for 10-15 seconds to force a restart. If issue persists, contact customer support.

SPECIFICATIONS

Feature	Detail
Model Number	PTH-9A (6-in-One)
Product Dimensions	4.72 x 3.15 x 1.57 inches (1.57"D x 3.5"W x 3.9"H)
Item Weight	0.67 Pounds (10.72 ounces)
Power Source	Battery Powered (USB-C charging)
Battery Type	1 Lithium Ion battery (included)
Alarm Type	Audible
Manufacturer	INKBIRDPLUS

WARRANTY AND SUPPORT

INKBIRDPLUS products are designed for reliability and performance. For specific warranty details and terms, please refer to the warranty card included with your product or visit the official INKBIRDPLUS website. If you encounter any issues or require technical assistance, please contact INKBIRDPLUS customer support through their official channels. Keep your purchase receipt for warranty claims.

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question