

INKBIRDPLUS PTH-9C

INKBIRDPLUS Indoor Air Quality Monitor (PTH-9C) User Manual

Model: PTH-9C

Overview Setup **Safety Information** Product
Operation Specifications Troubleshooting Support

1. SAFETY INFORMATION

Please read all instructions carefully before using the INKBIRDPLUS PTH-9C Indoor Air Quality Monitor. Retain this manual for future reference.

- Do not expose the device to extreme temperatures, direct sunlight, or high humidity.
- Avoid dropping or subjecting the device to strong impacts.
- Keep the device away from water and other liquids.
- Do not attempt to disassemble or repair the device yourself. Contact qualified personnel for service.
- Use only the provided USB cable for charging.
- Ensure proper ventilation when calibrating the device.

2. PRODUCT OVERVIEW

The INKBIRDPLUS PTH-9C is a versatile 3-in-1 indoor air quality monitor designed to accurately detect Carbon Dioxide (CO2) levels, temperature, and humidity. It features a clear LCD screen with a multi-color display for easy interpretation of air quality data and includes customizable alarm functions.

Key Features:

- **3-in-1 Multifunction:** Monitors Carbon Dioxide (CO2), Temperature, and Humidity.
- **High Precision Sensors:** Equipped with a high-precision infrared sensor for CO2 and a built-in high-performance chip for accurate readings.
- **3-Color Smart Alarm:** Visual indication of CO2 concentration stages (Normal, Warning, Dangerous) with customizable alarm thresholds.
- **USB Rechargeable:** Features a 2400 mAh lithium battery, recommended for continuous use while charging.
- **Large LCD Screen:** Provides clear and easy-to-read data display with selectable temperature units (°C/°F).
- **Versatile Placement:** Includes a hanging hole for wall mounting and can be placed on flat surfaces.

Product Components:



Figure 1: Front view of the INKBIRDPLUS PTH-9C monitor displaying CO2, temperature, and humidity readings.



Figure 2: Back view of the monitor showing the power button, UP/DOWN buttons, hanging hole, and battery compartment.

3. SETUP

3.1 Initial Charging and Power On

1. Connect the provided USB cable to the device's USB port and plug the other end into a 5V-1A USB power adapter (not included) or a computer USB port.
2. The device will automatically power on and begin displaying readings. It is recommended to keep the device plugged in for continuous operation due to the 2400 mAh lithium battery powering three sensors.
3. Allow the device to stabilize for approximately 30 seconds to obtain initial accurate readings.

CONVENIENT USB CHARGING

2400 mAh Large-capacity Battery



Figure 3: The monitor connected via USB for charging and continuous power.

3.2 CO2 Calibration

For optimal accuracy, especially upon first use, calibrate the CO2 sensor in an open, well-ventilated environment (e.g., outdoors).

1. Ensure the device is powered off.
2. Take the device to an outdoor area with fresh air.
3. Simultaneously press and hold the three buttons on the device for 200 seconds. The display will indicate calibration in progress.
4. Once calibration is complete, the device will return to normal operation.



Figure 4: Illustration of pressing three buttons for CO2 calibration.

4. OPERATING INSTRUCTIONS

4.1 Display Information

The large LCD screen displays real-time readings for CO2 concentration, temperature, and humidity. A multi-color bar visually indicates the CO2 level status.

- **CO2 (ppm):** Carbon Dioxide concentration in parts per million.
- **Temperature (°C/°F):** Ambient temperature.
- **Humidity (%):** Relative humidity.
- **History Graph:** Displays historical CO2 data over time.

INDOOR CARBON DIOXIDE DETECTOR



Temperature



Carbon Dioxide



Humidity



Backlit LCD



°C/°F Selection



Calibration
Function



CO₂ Alarm



USB Charging



Figure 5: Detailed view of the monitor's display showing all measured parameters.

4.2 CO₂ Concentration Stages and Alarm

The device categorizes CO₂ levels into three stages, indicated by color changes on the display and an audible alarm when thresholds are exceeded:

- **Normal Stage:** 400-700 ppm (Green indication)
- **Warning Stage:** 700-1500 ppm (Yellow indication)
- **Dangerous Stage:** 1500-5000 ppm (Red indication)

3 STAGES OF CO₂ CONCENTRATION



Figure 6: Visual representation of CO₂ concentration levels and their corresponding safety stages.

4.3 Customizing Alarm Thresholds

You can customize the CO₂ concentration value at which the alarm will trigger.

1. Double-press the designated button (refer to Figure 2 for button layout) to enter the alarm setting mode.
2. Use the UP/DOWN buttons to adjust the desired CO₂ alarm value.
3. Press the button again to confirm and save the setting.

CO₂ WARNING ALARM

The detector will alarm you when the concentration of CO₂ reaches a preset value

Double-press it to enter the setting of alarming value



Figure 7: The monitor indicating a CO2 warning alarm.

4.4 Changing Temperature Units

To switch between Celsius (°C) and Fahrenheit (°F) for temperature display, press the appropriate button (usually labeled with °C/°F or similar, refer to Figure 2).

4.5 Backlight Control

The device's display backlight can be turned on or off. Refer to the button functions (Figure 2) for the specific button controlling the backlight.

5. MAINTENANCE

- Clean the device regularly with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Ensure the ventilation holes are free from dust and debris to maintain accurate readings.
- When not in use for extended periods, store the device in a cool, dry place.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Inaccurate CO2 readings	Device not calibrated or placed in a poorly ventilated area.	Perform CO2 calibration in a fresh air environment. Ensure proper air circulation around the device.
Short battery life	Continuous use of sensors drains battery quickly.	Keep the device plugged in via USB for continuous operation. The battery is primarily for backup.
Alarm not sounding	Alarm function is disabled or threshold is set too high.	Check alarm settings and ensure it is enabled. Adjust the alarm threshold to a suitable level.
Display not visible	Backlight is off or device is powered off.	Press the backlight button to turn it on. Ensure the device is powered on and charged.



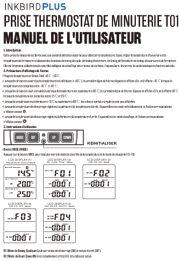

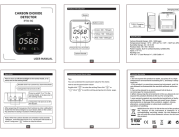
7. SPECIFICATIONS

Feature	Detail
Model Number	PTH-9C
Functions	CO2 Detection, Temperature, Humidity
CO2 Sensor Type	High-precision infrared sensor
CO2 Concentration Stages	Normal (400-700 ppm), Warning (700-1500 ppm), Dangerous (1500-5000 ppm)
Battery	2400 mAh Lithium Battery
Power Source	Battery Powered (USB Rechargeable)
Display	Large LCD Screen
Temperature Units	°C / °F selectable
Item Weight	306 Grams
Parcel Dimensions	14 x 10 x 5 cm
Manufacturer	INKBIRDPLUS

8. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your INKBIRDPLUS PTH-9C monitor, please refer to the contact information provided with your product packaging or visit the official INKBIRDPLUS website.



	<p>INKBIRDPLUS PTH-9A Multi-Function Air Quality Detector User Manual</p> <p>Comprehensive user manual for the INKBIRDPLUS PTH-9A Multi-Function Air Quality Detector, covering product introduction, specifications, operation instructions, time/date setting, and warranty information. Monitor PM2.5, PM10, CO2, temperature, and humidity.</p>
	<p>INKBIRDPLUS HS-16 Metal Detector Owner's Manual and User Guide</p> <p>Detailed user manual for the INKBIRDPLUS HS-16 metal detector, a waterproof handheld device with an LCD screen. Covers features, specifications, operation, and battery replacement for effective metal detection.</p>
	<p>INKBIRDPLUS T01 Prise Thermostat Minuterie Manuel de l'Utilisateur</p> <p>Manuel d'utilisation pour la prise thermostat minuterie INKBIRDPLUS T01. Guide complet sur les fonctions de contrôle de température et de minuterie, les modes de fonctionnement, le calibrage et les spécifications techniques.</p>
	<p>MOES WiFi CO2 Detector Instruction Manual - Air Quality Monitor</p> <p>Comprehensive instruction manual for the MOES WiFi CO2 Detector, an air quality monitor that measures Carbon Dioxide, Temperature, and Humidity. Learn about setup, operation, specifications, and warranty.</p>
	<p>VEVOR Carbon Dioxide Monitor PTH-9C/PTH-9CW User Manual</p> <p>User manual for the VEVOR Carbon Dioxide Monitor (Models PTH-9C, PTH-9CW). Covers features, safety, operation, technical specifications, and connectivity for monitoring indoor air quality.</p>
	<p>INKBIRD PTH-9C Carbon Dioxide Detector User Manual</p> <p>User manual for the INKBIRD PTH-9C Carbon Dioxide Detector, covering operation, customization, specifications, and warranty information.</p>