INKBIRDPLUS PTH-9D

INKBIRDPLUS PTH-9D Indoor 3-in-1 Carbon Monoxide Monitor User Manual

Model: PTH-9D | Brand: INKBIRDPLUS

1. INTRODUCTION

Thank you for choosing the INKBIRDPLUS PTH-9D Indoor 3-in-1 Carbon Monoxide Monitor. This device is designed to accurately detect carbon monoxide (CO) concentration, temperature, and relative humidity in your environment. It utilizes a high-precision NDIR sensor for reliable CO detection and provides visual and audible alerts for elevated CO levels. Please read this manual thoroughly before use to ensure proper operation and safety.

Important Safety Note: Carbon monoxide is an invisible, odorless, and tasteless gas that can be fatal. This device is intended to assist in detecting CO but should not be used as a substitute for proper ventilation, maintenance of fuel-burning appliances, or professional CO detection systems. Always follow local safety guidelines and regulations.

2400 mAh
Large-capacity Battery

The charging time is about 4-5 hours,
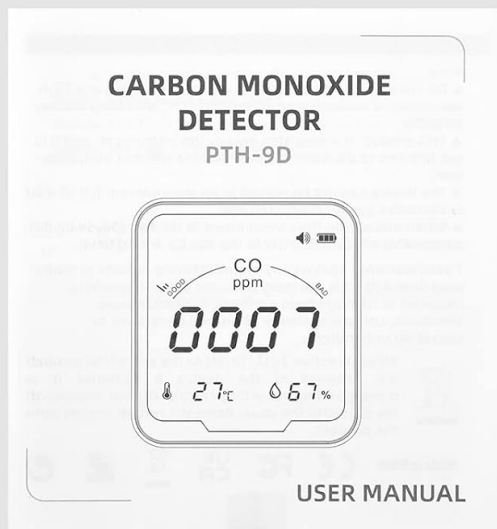and the working time is about 90 hours

Image 1.1: The INKBIRDPLUS PTH-9D monitor shown in diverse environments such as winter camping, inside a car, and next to a wood-burning stove, emphasizing its role in preventing carbon monoxide poisoning in these scenarios.

2. PRODUCT OVERVIEW

2.1 Package Contents

- INKBIRDPLUS PTH-9D Carbon Monoxide Monitor
- USB Type-C Charging Cable
- User Manual

Image 2.1: The INKBIRDPLUS PTH-9D monitor, a USB Type-C charging cable, and the printed user manual, representing the complete package contents.
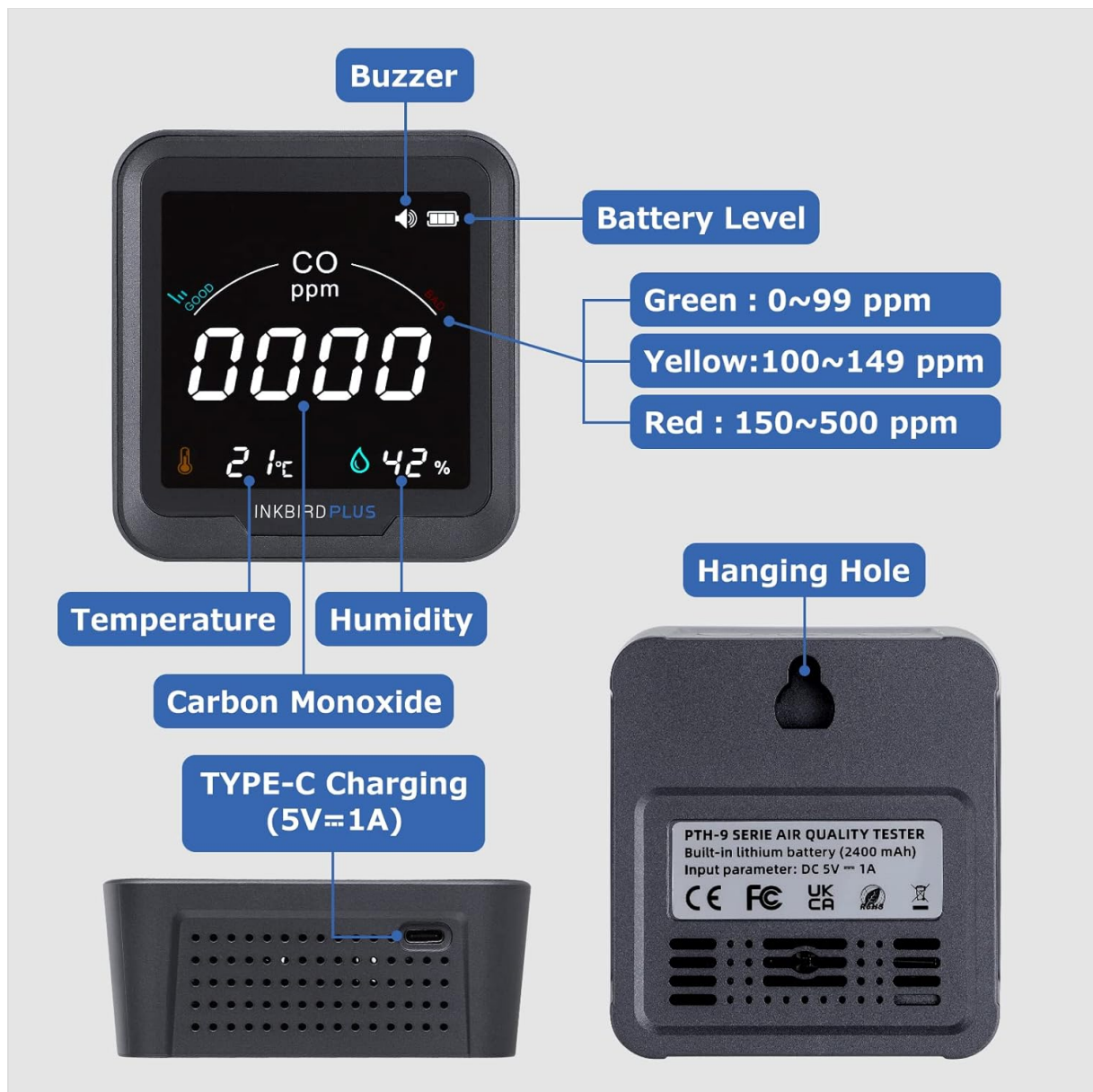
2.2 Device Components

Image 2.2: A detailed diagram of the PTH-9D monitor, highlighting key components such as the buzzer, battery level indicator, CO display, temperature display, humidity display, Type-C charging port, and hanging hole.

- **Buzzer:** Emits an audible alarm when CO levels exceed the set threshold.
- **Battery Level Indicator:** Displays the current battery charge status.
- **CO Display:** Shows the carbon monoxide concentration in parts per million (ppm).
- **Temperature Display:** Shows the ambient temperature.
- **Humidity Display:** Shows the relative humidity percentage.
- **Type-C Charging Port:** For connecting the USB Type-C cable to charge the device.
- **Hanging Hole:** Allows for wall-mounting the device.

3. SETUP

3.1 Initial Charging

Before first use, fully charge the device. Connect the provided USB Type-C cable to the charging port on the device and plug the other end into a standard 5V=1A USB power adapter (not included). The charging time is approximately 4-5 hours, providing a working time of about 90 hours on a full charge.

Image 3.1: The PTH-9D monitor being charged via its Type-C port, connected to a wall outlet, demonstrating the charging process.

3.2 Placement

The PTH-9D monitor can be placed on a flat surface, such as a table or desk, or mounted on a wall using the integrated hanging hole. Ensure the device is placed in an area where air circulates freely and is not obstructed by furniture or curtains. Avoid placing it near vents, windows, or direct heat sources.
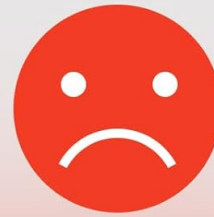
CO 3-Color Light Indicator

| Normal (0 ~ 99) | Warning (100 ~ 149) | Dangerous (150 ~ 500) |

Image 3.2: A close-up of the hanging hole on the rear of the PTH-9D monitor, illustrating how it can be used for wall installation.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

To power on the device, press and hold the power button (usually located on the side or top) for a few seconds until the display illuminates. To power off, press and hold the power button again until the display turns off.

4.2 Display Information

The device's display provides real-time readings for carbon monoxide concentration, temperature, and relative humidity. It also shows the battery level and a visual indicator for CO air quality.

Image 4.1: The main display of the PTH-9D monitor, showing a CO reading of '0000 ppm', a temperature of 69°F, and 42% humidity, along with battery and signal indicators.

4.3 Carbon Monoxide Detection and Alarm

The PTH-9D uses a highly accurate NDIR (Non-Dispersive Infrared) sensor to detect carbon monoxide concentration every 2 seconds. The device provides visual and audible indications based on detected CO levels:

- **0-99 ppm:** Green indicator light (Normal/Good air quality).
- **100-149 ppm:** Yellow indicator light (Warning/Moderate air quality).
- **150-500 ppm:** Red indicator light (Dangerous/Poor air quality).

When the CO concentration exceeds 200 ppm, the device will activate an audible alarm to alert you to potentially dangerous conditions.

Prevention of Carbon Monoxide Poisoning

Carbon monoxide is invisible to the naked eye.
It should be detected with a special carbon monoxide detector.

Winter Camping | Live in a car | Wood burning stove

Image 4.2: A visual representation of the CO 3-color light indicator, showing how the device signals Normal, Warning, and Dangerous carbon monoxide levels with corresponding colors and smiley/frown faces.

4.4 Backlight Function

The device features a backlight that can be turned on or off. This allows you to monitor CO concentration in various lighting conditions without disturbing sleep. Refer to the device's buttons (if any are present beyond the power button) for specific instructions on toggling the backlight.

5. MAINTENANCE

5.1 Cleaning

To clean the device, gently wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the device in water. Ensure no liquid enters the ventilation holes or charging port.

5.2 Battery Care

To prolong battery life, avoid fully discharging the device frequently. Recharge the device when the battery indicator shows low power. If storing the device for an extended period, charge it to approximately 50% and recharge every few months.

6. TROUBLESHOOTING

If you encounter any issues with your INKBIRDPLUS PTH-9D monitor, please refer to the following common problems and solutions:

- **Device not turning on:** Ensure the device is fully charged. Connect it to a power source using the provided USB Type-C cable and allow it to charge for at least 30 minutes before attempting to power it on again.
- **Inaccurate CO readings:** Ensure the device is placed in an area with good air circulation and away from direct drafts, vents, or sources of combustion. Allow the device to stabilize for a few minutes after powering on. If readings remain consistently unusual, contact customer support.
- **Alarm sounds unexpectedly:** Check the CO concentration displayed on the screen. If the alarm sounds and the CO level is high, evacuate the area immediately and seek fresh air. If the CO level is low and the alarm sounds, try restarting the device.
- **Display is dim or not visible:** Check the battery level and recharge if necessary. Ensure the backlight function is enabled if operating in low-light conditions.

7. SPECIFICATIONS

Feature	Specification
Model Number	PTH-9D
Brand	INKBIRDPLUS
CO Measurement Range	0 ppm ~ 500 ppm
Temperature Measurement Range	-10°C ~ 40°C (14°F ~ 104°F)
Humidity Measurement Range	20% ~ 80% RH
Sensor Type	Non-Dispersive Infrared (NDIR)
Alarm Type	Audible
Power Source	Corded Electric (USB Type-C)
Battery Capacity	2400 mAh (Built-in lithium battery)
Input Parameter	5V === 1A
Charging Time	Approx. 4-5 hours
Working Time	Approx. 90 hours
Item Weight	322 g
Package Dimensions	13.79 x 9.91 x 4.9 cm

Carbon Monoxide Measurement Range:
0 ppm～500 ppm
Temperature Measurement Range:
-10°C～ 40°C
Humidity Measurement Range:
20%～80%RH

Image 7.1: The PTH-9D monitor displaying its readings, accompanied by text detailing its measurement ranges for carbon monoxide, temperature, and humidity.

8. WARRANTY AND SUPPORT

INKBIRDPLUS products are manufactured with high-quality standards. For warranty information, technical support, or any questions regarding your PTH-9D monitor, please contact the manufacturer directly. You can find contact details on the product packaging or through the official INKBIRDPLUS website.
Manufacturer: Protech International Group Co., Ltd.
Email: support@inkbird.com
For additional support, please refer to the contact information provided in the included user manual or visit the INKBIRDPLUS official website.