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> GasDoc DS-399PRO 4-in-1 Portable CO & CO2 Detector User Manual

## GasDoc DS-399PRO

# GasDoc DS-399PRO 4-in-1 Portable CO & CO2 Detector User Manual

Model: DS-399PRO

## 1. INTRODUCTION

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The GasDoc DS-399PRO is a versatile 4-in-1 portable detector designed to monitor air quality by measuring Carbon Monoxide (CO) and Carbon Dioxide (CO2) levels. Additionally, it provides real-time temperature and humidity readings. This device is engineered to enhance safety and provide peace of mind in various environments, including homes, during travel, camping, or in vehicles.

## 2. PACKAGE CONTENTS

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Upon opening the package, please verify that all the following items are included:

- 1x GasDoc DS-399PRO Carbon Monoxide & Carbon Dioxide Detector
- 1x Type-C Charging Cable
- 1x Lanyard
- 1x User Manual (this document)

# WHAT YOU WILL GET



1x DS-399PRO CO & CO2 Detector

1x Type-C Cable

1x Lanyard

1x User Manual

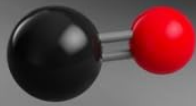
Image: The package contents, including the DS-399PRO detector, Type-C charging cable, lanyard, and user manual.

## 3. PRODUCT FEATURES

The DS-399PRO detector offers a comprehensive set of features for environmental monitoring:

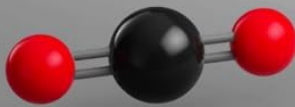
- **4-in-1 Detection:** Measures Carbon Monoxide (CO), Carbon Dioxide (CO2), Temperature, and Humidity.
- **CO Measurement Range:** 0 to 1000 PPM.
- **CO2 Measurement Range:** 400 to 5000 PPM.
- **Audible & Visual Alarm:** Customizable alarm thresholds with sound and color-changing indicator light.
- **Portable Design:** Compact and lightweight, approximately palm-sized (4.13 x 2.05 x 0.94 inches), with an included lanyard for easy carrying.
- **Rechargeable Battery:** Equipped with a 1000mAh battery, offering up to 72 hours of continuous use on a single charge via Type-C.

# PORTABLE CO / CO<sub>2</sub> DETECTOR



Detects CO

**0-1000** PPM



Detects CO<sub>2</sub>

**400-5000** PPM

Image: The DS-399PRO detector displaying CO and CO<sub>2</sub> detection ranges (0-1000 PPM for CO, 400-5000 PPM for CO<sub>2</sub>).

# VISUAL & AUDIBLE ALERT



**Red Indicator Light**



**Beeping Alarm**

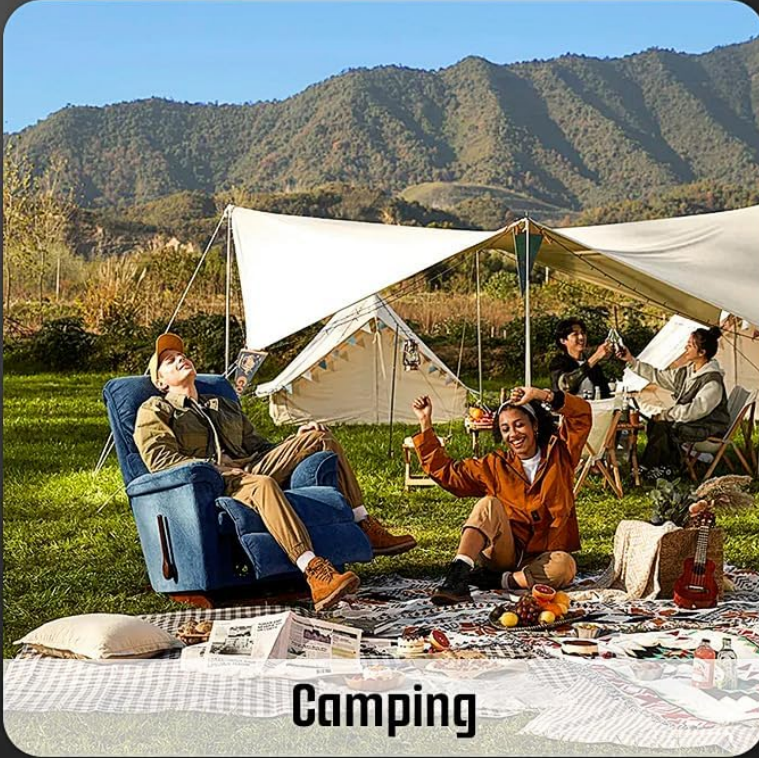
Image: The DS-399PRO detector emphasizing its 72-hour standby time and convenient Type-C rechargeable battery.



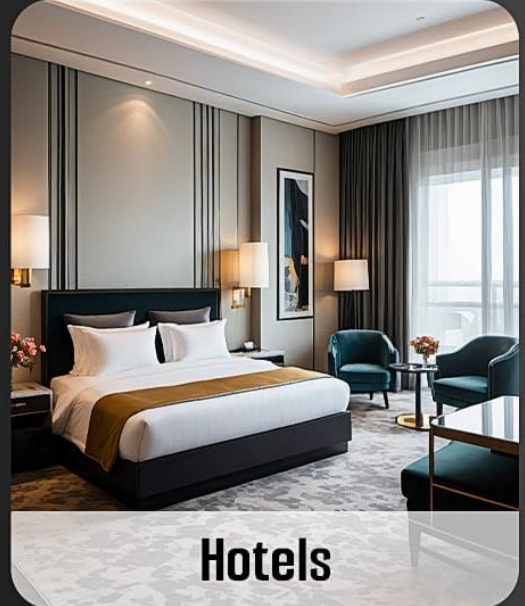
Image: The DS-399PRO detector illustrating its visual and audible alert system, with a red indicator light and beeping alarm.



# Carbon Monoxide Detector — Wide Application



**Camping**



**Hotels**



**Tents**



**RV**

Image: The compact, pocket-sized DS-399PRO detector attached to a backpack, demonstrating its portability with dimensions.

## 4. SETUP AND INITIAL USE

### 4.1 Charging the Device

Before first use, fully charge the DS-399PRO detector. Connect the provided Type-C charging cable to the device's charging port and plug the other end into a compatible USB power adapter (not included). The battery indicator on the

screen will show charging status. A full charge provides up to 72 hours of continuous operation.



Image: The DS-399PRO detector being charged via its Type-C port, illustrating the charging process.

## 4.2 Powering On/Off

To power on the device, press and hold the middle button until the screen illuminates. To power off, press and hold the middle button again until the screen turns off.

## 4.3 Initial CO2 Calibration

For accurate CO2 readings, it is recommended to perform a manual calibration before first use and periodically thereafter. This should be done outdoors in fresh air.

- **Automatic Calibration:** The device supports automatic CO2 calibration, which is turned off by default. Refer to the operating section for how to enable/disable this feature.
- **Manual Calibration:** To start manual calibration, ensure the device is off. Then, press and hold the middle button and either the up or down button simultaneously. The calibration process will take approximately 200 seconds to complete.



Image: The DS-399PRO display showing 'C-ON' for automatic calibration enabled and 'C-OFF' for automatic calibration disabled.

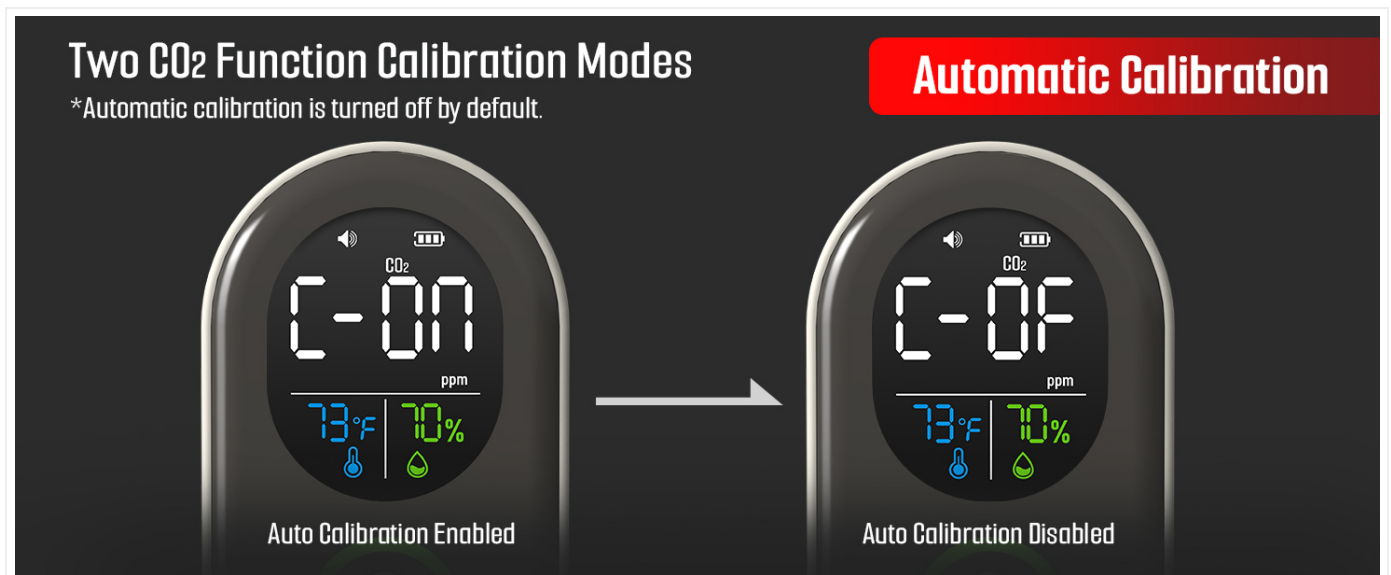


Image: Instructions for manual CO2 calibration, showing the device displaying a countdown during the 200-second process.

## 5. OPERATION

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### 5.1 Understanding the Display

The device's screen displays real-time readings for:

- **CO (Carbon Monoxide) levels:** Measured in Parts Per Million (PPM).
- **CO2 (Carbon Dioxide) levels:** Measured in Parts Per Million (PPM).
- **Temperature:** Displayed in Celsius or Fahrenheit.
- **Humidity:** Displayed as a percentage.
- **Battery Indicator:** Shows remaining battery life.

### 5.2 Button Functions

The DS-399PRO features three control buttons:

- **Middle Button:** Power On/Off (long press), Switch display modes (short press).
- **Up Button:** Navigate menus, Increase values.
- **Down Button:** Navigate menus, Decrease values.

### 5.3 Setting Alarm Thresholds

The device allows you to set custom alarm thresholds for both CO and CO2. Refer to the full user manual for detailed instructions on accessing and adjusting these settings. When gas concentrations exceed the set thresholds, the device will activate its alarm system.

### 5.4 Audible & Visual Alerts

When gas levels reach or exceed the set alarm thresholds, the DS-399PRO provides dual alerts:

- **Audible Alarm:** The device emits a distinct beeping sound.
- **Visual Alarm:** The ring indicator light below the screen changes color (e.g., red for danger) based on the alert level.



Image: The DS-399PRO detector illustrating its visual alert system with indicator lights for Safe (green), Warning (yellow), and Danger (red) levels.

To mute or unmute the audible alarm, long press the down button. For safety, it is recommended to keep sound alerts enabled.



Image: The DS-399PRO detector showing how to long press the down button to mute or unmute sound alerts, with icons indicating alert status.

## 6. SAFETY INFORMATION

### 6.1 Carbon Monoxide (CO)

Carbon Monoxide (CO) is a colorless, odorless, and tasteless toxic gas, often referred to as the "Invisible Killer." It is produced by the incomplete combustion of carbon-containing fuels. Inhaling high concentrations can lead to serious health risks, including poisoning and death.

# HOW TO TEST THE DS-399PRO CO FUNCTION

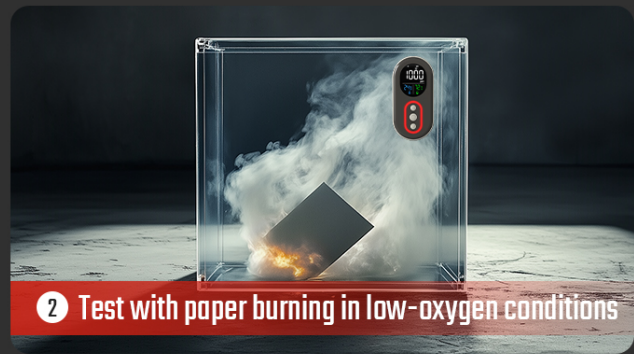


Image: Text explaining that Carbon Monoxide (CO) is a colorless, tasteless, odorless toxic gas, difficult to detect, and can cause serious health risks.

Symptoms of CO poisoning can include weakness, nausea, headache, vomiting, dizziness, and confusion. Prolonged exposure can be fatal.

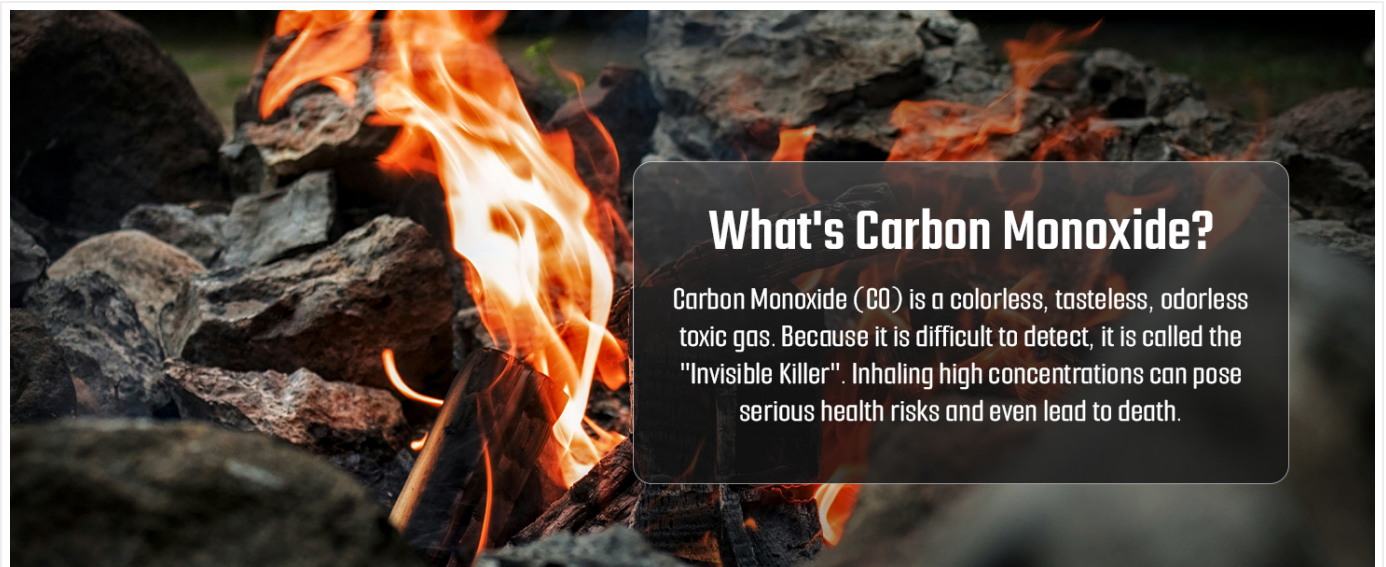


Image: Visual representation of symptoms associated with Carbon Monoxide (CO) poisoning, including weakness, nausea, headache, vomiting, dizziness, confusion, and death.

Common sources of CO include:

- Fireplaces
- Water Heaters
- Gas Stoves
- Car Exhaust
- Charcoal Grills
- Portable Generators

# Carbon Monoxide (CO) Poisoning

Weakness, Nausea, Headache, Vomiting, Dizziness, Confusion, Death



Image: A collage of common household and outdoor items that are potential sources of Carbon Monoxide, such as fireplaces, water heaters, gas stoves, car mufflers, charcoal grills, and portable generators.

## 6.2 Carbon Dioxide (CO<sub>2</sub>)

Carbon Dioxide (CO<sub>2</sub>) is a colorless, odorless gas naturally present in the air. While essential for life, high levels of CO<sub>2</sub> can negatively impact human health, comfort, and productivity. Breathing high concentrations can cause headaches, dizziness, or shortness of breath, and prolonged exposure may lead to more serious health issues.

### Two CO<sub>2</sub> Function Calibration Modes

#### Manual Calibration

To start calibration, press and hold  and  (or ) while the device is off. After 200 seconds, the calibration completes.

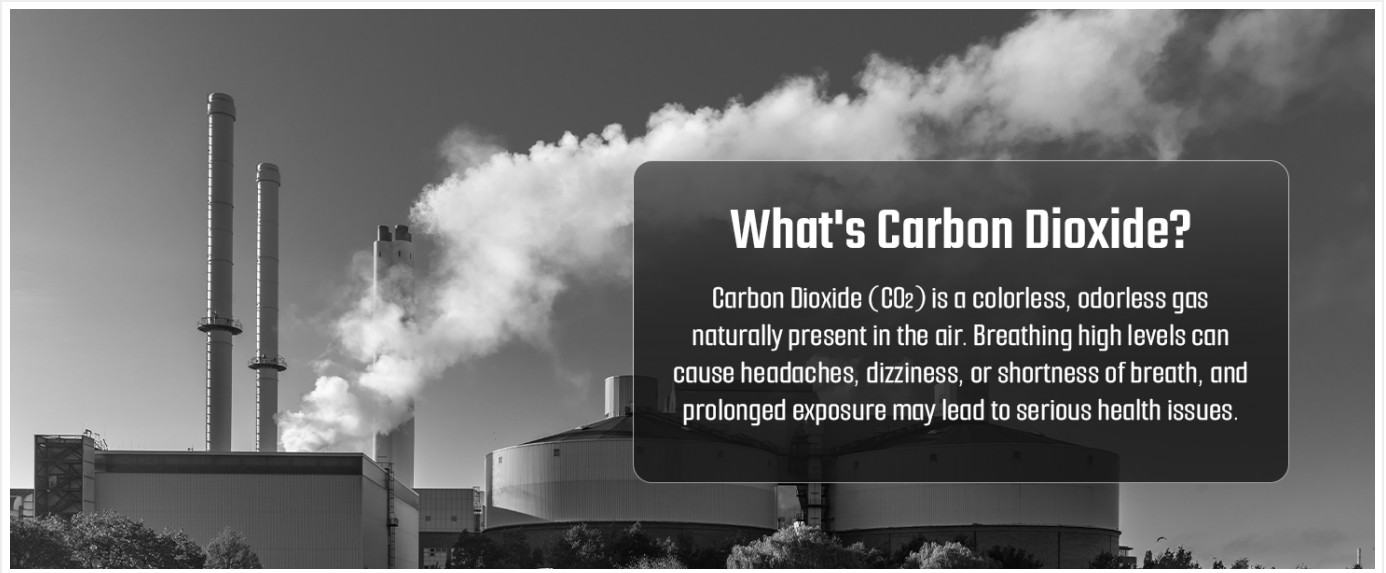


**Note: Perform manual calibration outdoors. Manual calibration is recommended before first use and periodically.**



Image: Text explaining that Carbon Dioxide (CO<sub>2</sub>) is a colorless, odorless gas naturally present in the air, and high levels can cause health issues.

If CO<sub>2</sub> levels are significantly above the normal range, it is important to open windows or ventilate the area to improve air quality.



## What's Carbon Dioxide?

Carbon Dioxide (CO<sub>2</sub>) is a colorless, odorless gas naturally present in the air. Breathing high levels can cause headaches, dizziness, or shortness of breath, and prolonged exposure may lead to serious health issues.

Image: A visual guide showing the impact of CO<sub>2</sub> levels on human well-being, with ranges (400-699 PPM for good, 700-1499 PPM for moderate, 1500-5000 PPM for poor air quality).

CO<sub>2</sub> detectors are useful in various settings:

- Home
- Office
- Car
- Schools
- Greenhouses



Image: A collage depicting various environments where CO<sub>2</sub> detectors are beneficial, including homes, offices, cars, schools, and greenhouses.

## 7. MAINTENANCE

### 7.1 Cleaning

To maintain optimal performance, regularly clean the exterior of the device with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the device in water.

### 7.2 Battery Care

The DS-399PRO uses a rechargeable Lithium-Ion battery. 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, ensure it is partially charged (around 50%) and recharge every few months.

### 7.3 Sensor Calibration

As mentioned in the setup section, periodic manual CO2 calibration in fresh outdoor air is recommended to ensure continued accuracy of CO2 readings.

## 8. TROUBLESHOOTING

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- **Device does not power on:** Ensure the device is fully charged. Connect it to the Type-C charging cable and allow it to charge for at least 30 minutes before attempting to power it on again.
- **Inaccurate CO2 readings:** Perform a manual CO2 calibration outdoors in fresh air. Ensure no sources of CO2 (e.g., human breath, combustion) are near the device during calibration.
- **Alarm not sounding:** Check if the audible alarm has been muted (long press the down button). Ensure alarm thresholds are set appropriately for the environment.
- **Screen goes blank:** The device features an auto-screen-off function after a period of inactivity to conserve battery. Press any button to wake the screen.
- **Device not detecting gas:** Ensure the device is placed in an area where air can freely circulate to the sensors. Avoid placing it in enclosed spaces or directly next to vents.

## 9. SPECIFICATIONS

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Feature	Specification
Model Number	DS-399PRO
Brand	GasDoc
CO Measurement Range	0 - 1000 PPM
CO2 Measurement Range	400 - 5000 PPM
Power Source	Battery Powered
Battery Type	1 Lithium Ion battery (included)
Battery Capacity	1000mAh
Continuous Use Time	Up to 72 hours
Charging Port	Type-C
Item Weight	5 ounces (approx. 0.31 lbs)
Package Dimensions	4.57 x 2.2 x 1.85 inches

## 10. WARRANTY AND SUPPORT

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For warranty information and customer support, please refer to the official GasDoc website or contact their customer

service directly. Details may also be available on the product packaging or purchase platform.

