CPVAN COS-X3 plus
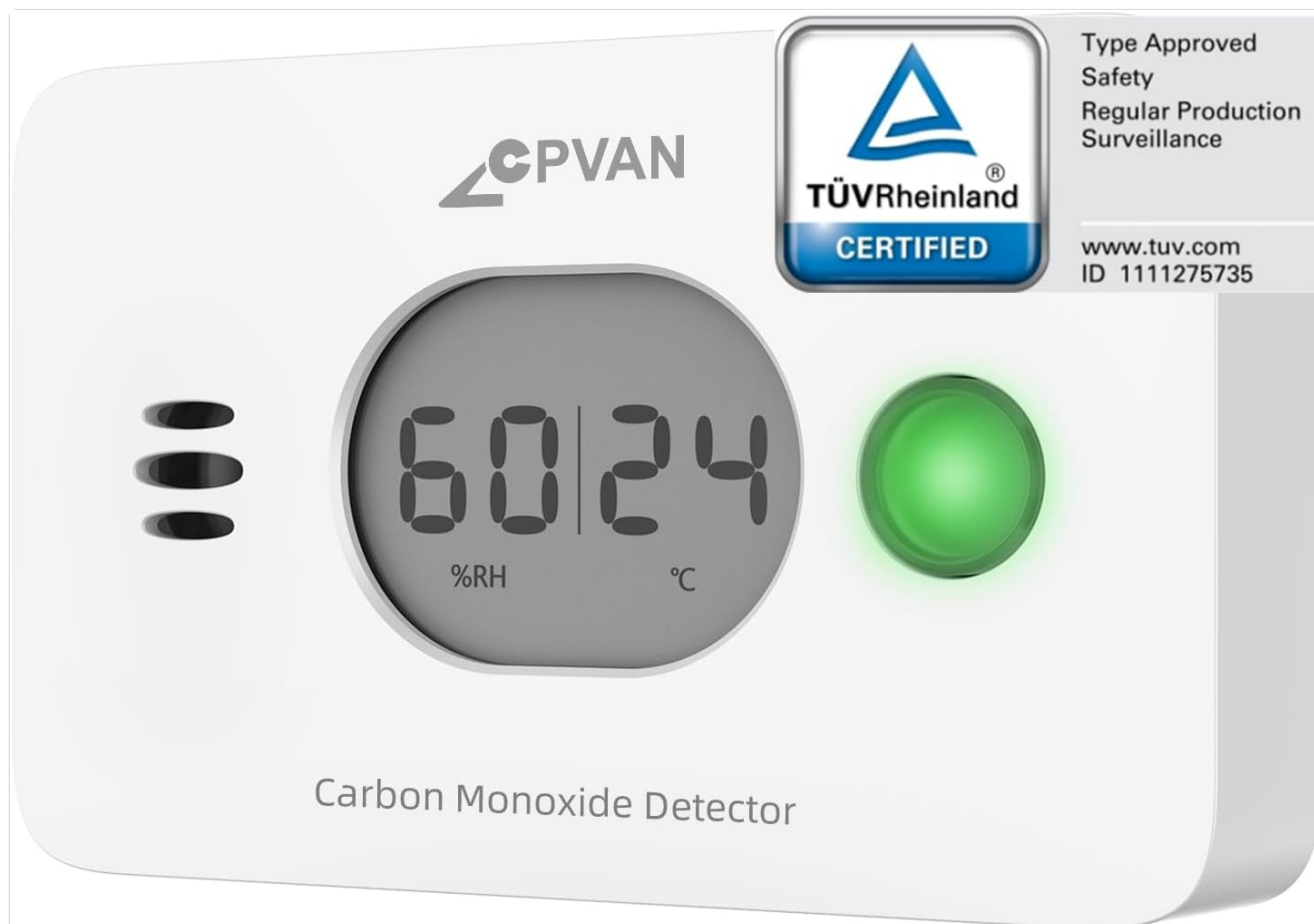
CPVAN 3-in-1 Carbon Monoxide Detector User Manual

Model: COS-X3 plus

Brand: CPVAN

INTRODUCTION

This user manual provides essential information for the proper installation, operation, and maintenance of your CPVAN 3-in-1 Carbon Monoxide Detector. This device is designed to detect carbon monoxide (CO) gas, and also displays ambient temperature and humidity. It features a 10-year electrochemical sensor and is powered by a 4-year replaceable battery, certified to EU standard EN50291. Please read this manual thoroughly before using the product to ensure safe and effective operation.

SAFETY INFORMATION

Important: This device is a carbon monoxide (CO) detector, not a smoke detector or a carbon dioxide (CO2) detector. It is designed to detect carbon monoxide gas from sources such as faulty combustion appliances.

- Do not paint the detector. Paint may clog the openings and interfere with the sensor's ability to detect CO.

- Do not block the ventilation openings on the detector.

- Regularly test the detector as instructed in this manual.

- Do not install the detector in areas with high humidity, extreme temperatures, or excessive dust.

- In case of an alarm, evacuate the premises immediately and call emergency services. Do not re-enter until the area has been declared safe.

- The device cannot replace a smoke or gas alarm.
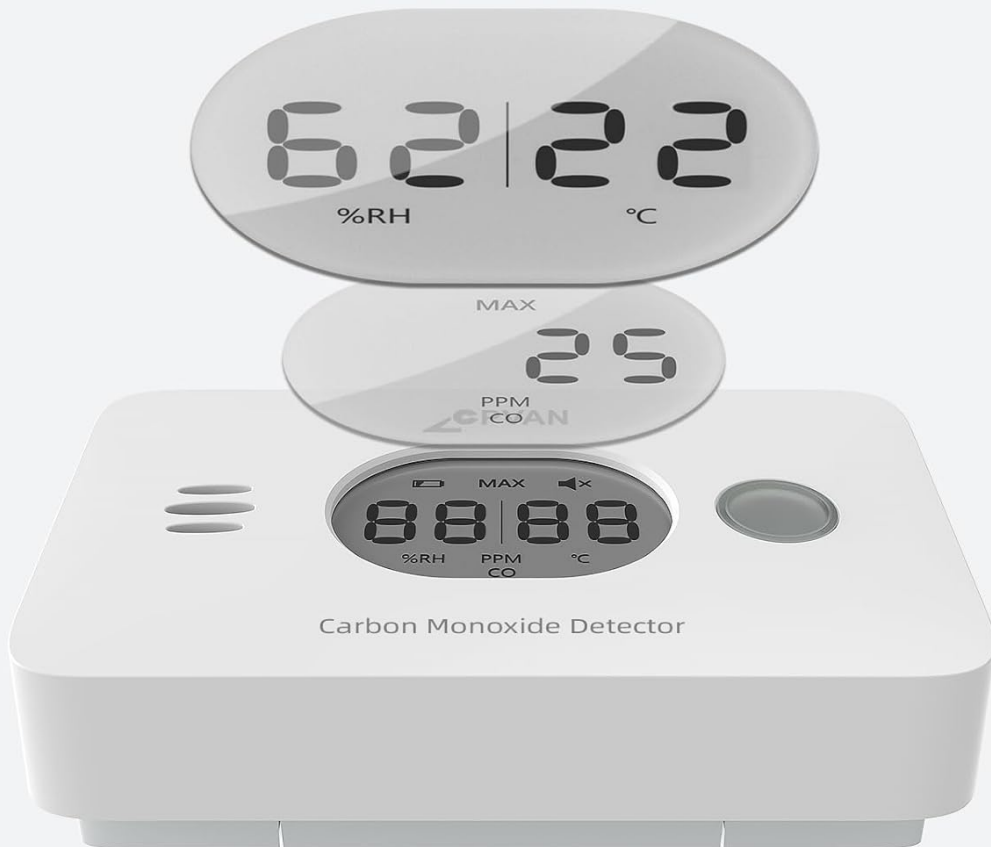
PACKAGE CONTENTS

Please check the package contents upon opening to ensure all items are present and undamaged.

- 1 × CPVAN Carbon Monoxide Detector (Model: COS-X3 plus)
- 2 × 1.5V AA Alkaline Batteries
- 2 × Wall Plugs
- 2 × Screws
- 1 × User Manual

PRODUCT OVERVIEW

The CPVAN 3-in-1 Carbon Monoxide Detector integrates CO detection with temperature and humidity monitoring.

Figure 2: The detector's display indicates Carbon Monoxide (CO) levels, relative humidity (%RH), and temperature (°C). When CO concentration is below 25 ppm, only temperature and humidity are displayed.

Key Components:

- **LCD Display:** Shows CO concentration (PPM), relative humidity (%RH), and temperature (°C).
- **Test/Reset Button:** Used to test the alarm function and reset the device.
- **Indicator Light:** Displays device status (Green for normal, Yellow for fault, Red for alarm).
- **Alarm Buzzer:** Emits a loud sound during a CO alarm.
- **Battery Compartment:** Located on the back for AA batteries.

Figure 3: Visual representation of the indicator light states: Green for normal operation, Yellow for fault, and Red for CO alarm.

SETUP

1. Battery Installation

The detector requires two 1.5V AA alkaline batteries (included).

1. Open the battery compartment cover on the back of the detector.
2. Remove the plastic insulating strip from the pre-installed batteries.
3. Insert the two AA batteries, ensuring correct polarity (+ and -).
4. Close the battery compartment cover securely. The device will automatically power on.

Pile Sostituibili

2 AA Alcaline Inclusi

Figure 4: Illustration of the battery compartment on the back of the detector, showing where to insert the two AA alkaline batteries.

2. Mounting and Placement

Proper placement is crucial for effective CO detection. Install the detector in locations where CO may be produced. The closer it is to a potential CO source, the sooner the alarm will activate.

- **Recommended Locations:** Near combustion appliances (furnaces, water heaters, fireplaces), in living areas, and bedrooms.
- **Avoid:** Directly above heat sources, in direct sunlight, near windows or vents, in dusty or humid areas, or behind curtains/furniture that could obstruct the sensor.
- **Installation Height:** For optimal detection, install the detector at a height between your waist and head level, or as per local regulations.

1. Choose a suitable wall location.
2. Mark the positions for the two screws using the detector's mounting holes as a guide.
3. Drill two holes and insert the wall plugs.
4. Insert the screws, leaving a small gap from the wall.

5. Align the detector's mounting slots with the screws and slide it down to secure it.

Figure 5: The detector can be easily mounted on a wall using the provided screws and wall plugs.
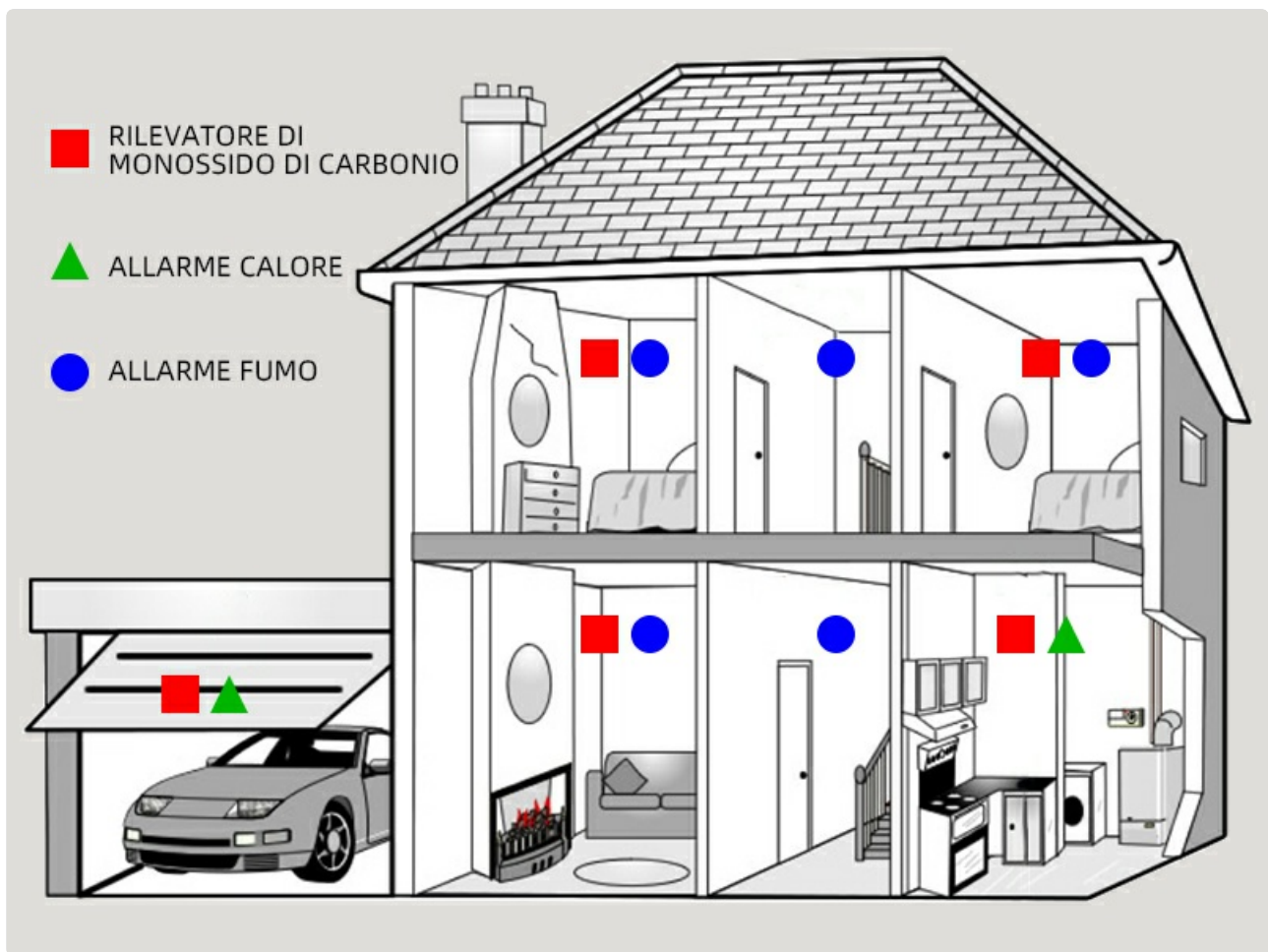
Figure 6: Example of optimal placement for CO detectors (red squares), heat alarms (green triangles), and smoke alarms (blue circles) within a typical home layout.

OPERATION

1. Initial Power-On

After battery installation, the device will perform a self-test. The display will show a brief sequence, and the green indicator light will flash. Once initialized, it will display temperature and humidity. The green light will flash approximately every 60 seconds in standby mode.

2. Display Information

The LCD display provides real-time information:

- **Temperature:** Shown in degrees Celsius (°C).
- **Humidity:** Shown as relative humidity (%RH).
- **CO Concentration:** Displayed in parts per million (PPM). If CO concentration is below 25 ppm, only temperature and humidity are shown. CO concentration is updated every 4 seconds.

RILEVAMENTO IN TEMPO REALE

Aggiornamento della Concentrazione di CO: 4 Secondi

Sicurezza — Ciclo di Allarme — Ciclo di Allarme — Ciclo di Allarme

0-50PPM 51-100PPM 101-300PPM >300PPM

Intervallo CO: 0 to 999PPM
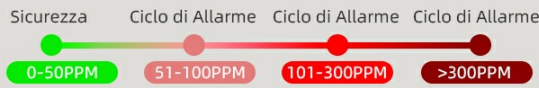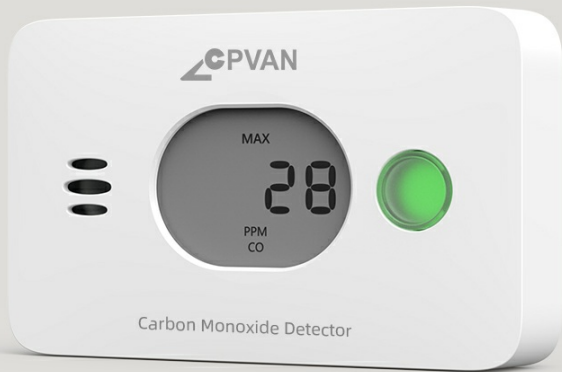Intervallo di Umidità: 1% to 99%RH (±3%RH)
Intervallo di Temperatura: -9℃ to 99℃ (±1)

MAX **28** PPM CO

CPVAN

Carbon Monoxide Detector

Figure 7: The real-time display shows current humidity and temperature. CO concentration is displayed when it exceeds 25 PPM, with different alarm cycles based on CO levels.

3. Testing the Alarm

It is recommended to test the detector weekly to ensure proper function.

- Press and hold the Test/Reset button on the front of the detector.
- The alarm will sound loudly, and the red indicator light will flash. The display will show a high CO reading (e.g., "MAX 58 PPM CO").
- Release the button to stop the test.

Alternatively, you can test by holding the detector near burning materials like paper or cigarettes for 5-10 seconds. Incomplete combustion typically produces carbon monoxide. If the detector functions correctly, it will display CO concentration and sound an audible alarm.

Figure 8: When CO is detected above the alarm threshold, the red light flashes and the alarm sounds.

4. Alarm Conditions and Behavior

The detector is certified to EN-50291 standards. Alarm thresholds are as follows:

CO Concentration (PPM)	Alarm Time
50 ppm	60-90 minutes
100 ppm	10-40 minutes
300 ppm	0-3 minutes

When an alarm occurs, the red indicator light will flash rapidly, and the buzzer will emit a loud, continuous alarm

sound. The display will show the detected CO concentration.

What to do if the alarm sounds:

1. Immediately move to fresh air outdoors or open all doors and windows to ventilate the area.
2. Do a head count to check that all persons are accounted for.
3. Do not re-enter the premises until the alarm has stopped and the area has been thoroughly ventilated.
4. Call your emergency services or a qualified technician to investigate the source of the CO.

Maintenance

1. Battery Replacement

The detector is designed with a 4-year replaceable battery life. When the batteries are low, the device will indicate this with a specific warning (e.g., a chirp or a low battery icon on the display). Replace both AA alkaline batteries promptly when this occurs. Refer to the "Battery Installation" section for replacement steps.

2. Cleaning

Clean the detector regularly to prevent dust buildup from affecting its performance.

- Use a soft, damp cloth to wipe the exterior of the detector.
- Do not use cleaning sprays, solvents, or abrasive cleaners.
- Do not paint the detector.

3. Regular Testing

Test the detector weekly using the Test/Reset button to ensure the alarm and sensor are functioning correctly.

Troubleshooting

Problem	Possible Cause	Solution
Detector not powering on after battery installation.	Batteries incorrectly inserted or dead. Plastic insulating strip not removed.	Ensure batteries are inserted with correct polarity. Remove the plastic insulating strip. Try new batteries.
Alarm sounds frequently without apparent CO source.	False alarm due to strong fumes (e.g., cleaning products, paint). Detector placed too close to a combustion source.	Ventilate the area. Relocate the detector if it's too close to a potential source or in an area with frequent fumes.
Detector chirps or shows low battery indicator.	Low battery.	Replace both AA alkaline batteries immediately.
Green light not flashing every 60 seconds.	Device fault or low battery.	Check battery level. Perform a test. If issue persists, contact customer support.
Display shows only temperature and humidity, not CO.	CO concentration is below 25 ppm, which is normal.	This is normal operation. The CO reading will appear if the concentration exceeds 25 ppm.

Specifications

Feature	Detail
Model Number	COS-X3 plus
Sensor Type	Electrochemical
CO Detection Range	0 to 999 PPM
Temperature Range	-9°C to 99°C (±1°C)
Humidity Range	1% to 99% RH (±3% RH)
Power Source	2 x 1.5V AA Alkaline Batteries (included)
Battery Life	Up to 4 years (replaceable)
Sensor Lifespan	10 years
Alarm Volume	Audible
Certification	EN 50291
Dimensions	11 x 6 x 3 cm
Weight	200 g
Material	ABS
UPC	765142658068

WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided with your purchase or contact CPVAN customer service directly.
Manufacturer: SafeBay
Contact information may be available on the product packaging or the official CPVAN website.

OFFICIAL PRODUCT VIDEOS

No official product videos with "Seller" as creator type were found in the provided data.

Related Documents - COS-X3 plus

CPVAN CO11R Interlinked Carbon Monoxide Detector User Manual

Comprehensive user manual for the CPVAN CO11R Interlinked Carbon Monoxide Detector, covering installation, operation, maintenance, CO safety, and warranty information. Includes product specifications, CO poisoning symptoms, and troubleshooting.

CPVAN SM11R/HD11R Interlinked Smoke and Heat Detector User Manual

User manual for the CPVAN SM11R/HD11R interlinked smoke and heat detector. Includes installation, operation, maintenance, troubleshooting, and warranty details for optimal home fire safety.

CPVAN P06 WiFi PIR Motion Sensor User Manual | Installation & Setup Guide

User manual for the CPVAN P06 WiFi PIR Motion Sensor. This guide provides detailed instructions on installation, setup, and features for the smart motion detector.

CPVAN WiFi PIR Motion Sensor Alarm User Manual

Comprehensive user manual for the CPVAN WiFi PIR Motion Sensor Alarm, detailing setup, product overview, specifications, preparation, and operation instructions for home security.

Interlinked Smoke Detector SM11R Quick Reference Guide

A quick reference guide for the SM11R Interlinked Smoke Detector, covering product specifications, installation instructions, locations to avoid, mounting, testing, LED indicators, silence mode, interlinked network setup, maintenance, troubleshooting, and warranty information.

CPVAN SM11 Independent Smoke Alarm - User Manual and Installation Guide

Detailed user manual and installation guide for the CPVAN SM11 Independent Smoke Alarm. Covers product specifications, installation, operation, maintenance, troubleshooting, and warranty. Features EN14604 certification and CE marking.