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Vkdemer WJ-SC9120b

Vkdemer 4-Pack Smoke and Carbon Monoxide Detector (Model WJ-SC9120b) User Manual

Comprehensive instructions for safe and effective use.

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your Vkdemer 4-Pack Smoke and Carbon Monoxide Detector. This device is designed to provide early warning of both smoke and carbon monoxide (CO) presence in your home, contributing to your household's safety. Please read this manual thoroughly before installation and retain it for future reference.

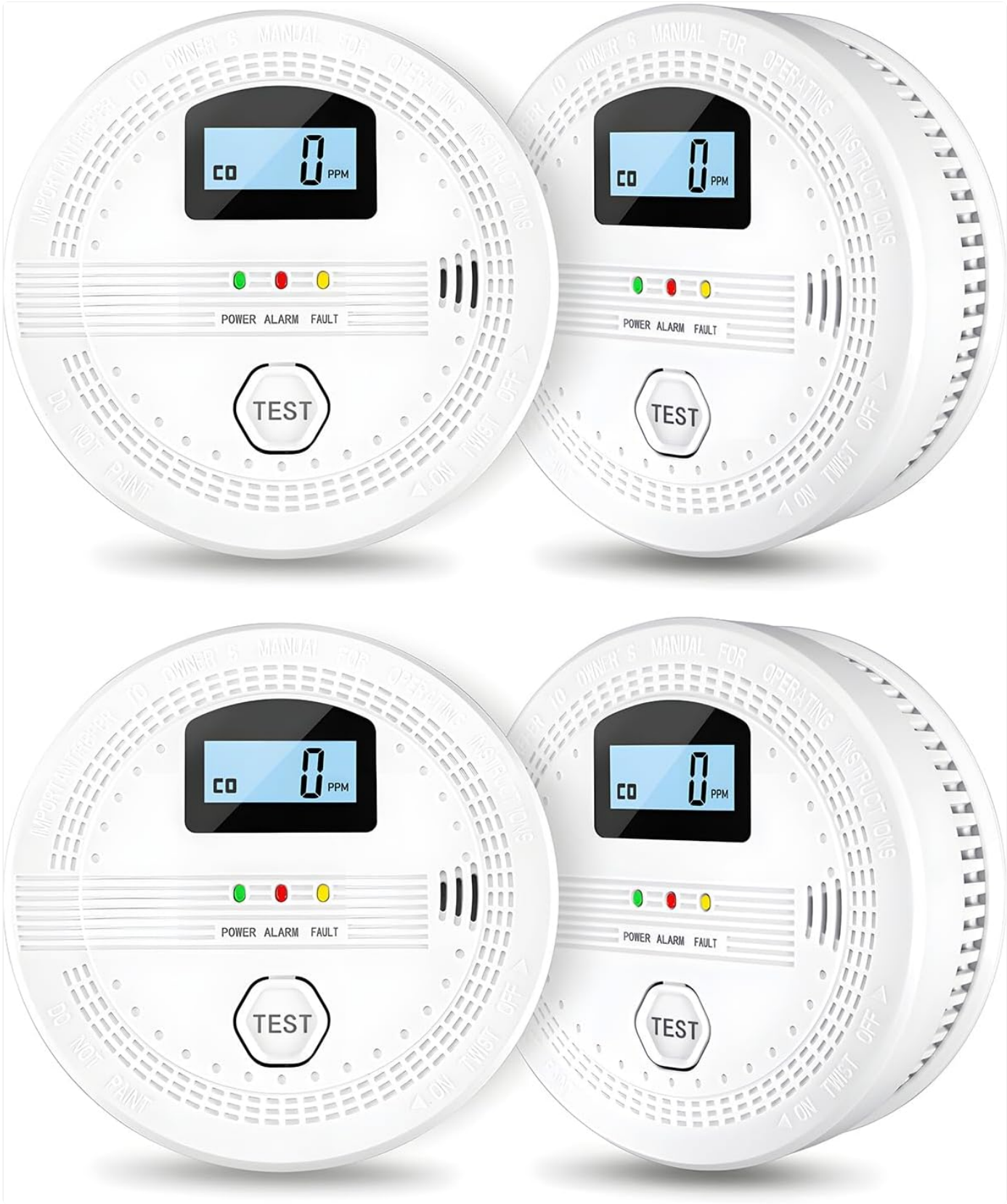


Image 1.1: Four Vkdemer Smoke and Carbon Monoxide Detectors. These units are designed for simultaneous detection of smoke and carbon monoxide.

2. Safety Information

Adherence to the following safety guidelines is crucial for proper operation and to prevent damage or injury:

- This device is intended for residential use only.
- Do not paint the detector. Paint can clog the sensing chambers and prevent the unit from operating correctly.
- Do not block the air vents on the detector.

- Test the detector weekly to ensure proper function.
- Replace batteries promptly when the low battery warning is indicated.
- This detector is not a substitute for property, disability, life, or other insurance of any kind.
- Carbon monoxide alarms are not smoke alarms. Smoke alarms are not carbon monoxide alarms. This unit is a combination device.

3. Package Contents

Verify that all items are present in your package:

- 4 x Vkdemer Smoke and Carbon Monoxide Detectors
- 4 x Mounting Holders
- 8 x Screws
- 8 x Expansion Pipes (Wall Anchors)
- 12 x AA Batteries (3 per detector)
- 1 x User Manual (this document)

4. Product Overview

Familiarize yourself with the components of your detector:



Image 4.1: Key components of the Vkdemer detector. This diagram highlights the LCD display, buzzer, LED indicators (Green for Power, Red for Alarm, Yellow for Fault/Low Battery), Test/Silence Button, and Air Vents.

- **LCD Display:** Shows real-time carbon monoxide concentration (in PPM) and other status indicators. The display is off in standby mode to conserve battery.
- **Buzzer:** Emits an audible alarm (over 85dB) when smoke or CO is detected.
- **LED Indicators:**
  - Green LED: Indicates normal operation (power).
  - Red LED: Indicates an alarm condition (smoke or CO).
  - Yellow LED: Indicates a fault or low battery.
- **Test/Silence Button:** Used to test the alarm function and to silence false alarms.
- **Air Vents:** Allow smoke and carbon monoxide to enter the sensing chambers.

5. Setup & Installation

Follow these steps for proper installation:

5.1 Choosing a Location

Install detectors in the following locations:

- On every level of your home, including basements.
- Inside every sleeping area.
- Outside each separate sleeping area, within 21 feet (6.4 meters) of any bedroom door.
- For CO detection, place detectors near potential sources of carbon monoxide, such as attached garages or rooms with fuel-burning appliances.

Avoid installing detectors in:

- Kitchens, bathrooms, or garages (due to steam, cooking fumes, or vehicle exhaust causing false alarms).
- Areas with extreme temperatures (below 40°F / 4.4°C or above 100°F / 37.8°C).
- Near windows, doors, or vents where drafts could interfere with detection.
- In direct sunlight.

5.2 Battery Installation

Your detector comes with 3 AA batteries. Install them before mounting.

1. Twist the detector counter-clockwise from its mounting bracket to open the battery compartment.
2. Insert the 3 AA batteries, ensuring correct polarity (+ and -).
3. Close the battery compartment securely. The detector will emit a short beep and the green LED will flash, indicating it is powered on.

5.3 Mounting the Detector



Image 5.1: Easy installation steps. This image illustrates drilling pilot holes, inserting expansion pipes (wall anchors), securing the mounting holder with screws, and finally twisting the detector onto the holder. The detector dimensions are shown as 4.2 inches (107mm) diameter and 1.5 inches (38mm) thickness.

1. Using the mounting holder as a template, mark two screw hole locations on the wall or ceiling.
2. Drill pilot holes at the marked locations. If mounting into drywall, insert the provided expansion pipes (wall anchors).
3. Attach the mounting holder to the wall or ceiling using the provided screws.

4. Align the detector with the mounting holder and twist it clockwise until it locks securely into place.
5. Once installed, press the "TEST" button to confirm the alarm is functioning.

6. Operating Instructions

6.1 Normal Operation

In normal operating mode, the green LED will flash approximately once every 60 seconds, indicating that the detector is powered and functioning correctly. The LCD display will typically be off to conserve battery, but will activate to show CO levels if detected.



Image 6.1: The detector provides 24/7 protection with 360-degree monitoring, ensuring comprehensive coverage for your home.

6.2 Testing the Detector

Test your detector weekly to ensure it is working properly:

- Press and hold the "TEST" button for a few seconds.
- The alarm will sound, and the red LED will flash. The LCD display may show "CO" and a high PPM value, simulating a CO detection.
- Release the button. The alarm will stop, and the detector will return to normal operation.
- If the alarm does not sound during the test, refer to the Troubleshooting section.

6.3 Alarm Conditions

The detector will alert you to dangerous conditions with both audible and visual signals:

- **Smoke Alarm:** The red LED will flash rapidly, and the buzzer will emit three long beeps followed by a pause, repeating the pattern.
- **Carbon Monoxide (CO) Alarm:** The red LED will flash rapidly, the buzzer will emit four quick beeps followed by a pause, repeating the pattern. The LCD display will show the detected CO concentration in PPM.
- **Low Battery Warning:** The yellow LED will flash, and the detector will chirp approximately once every 60 seconds. Replace batteries immediately.
- **Fault Warning:** The yellow LED will flash, and the detector will chirp irregularly. Refer to the Troubleshooting section.



Image 6.2: The practical LCD display shows real-time CO concentrations, and the 85dB buzzer provides a clear warning.

6.4 What to Do During an Alarm

For Smoke Alarm:

1. Evacuate all occupants immediately.
2. Call the fire department from a safe location outside the building.
3. Do not re-enter the building until authorized by fire officials.

For Carbon Monoxide Alarm:

1. Immediately move to fresh air outdoors or open all doors and windows to ventilate the area.
2. Call emergency services or a qualified technician to investigate the source of CO.
3. Do not re-enter the premises until the CO source has been identified and corrected, and the area has been thoroughly ventilated.

7. Maintenance

7.1 Battery Replacement

When the detector indicates a low battery warning (yellow LED flashes and chirps every 60 seconds), replace all three AA batteries immediately.

1. Twist the detector counter-clockwise from its mounting bracket.
2. Remove the old batteries and dispose of them according to local regulations.
3. Insert three new AA batteries, ensuring correct polarity.
4. Close the battery compartment and twist the detector back onto its mounting bracket.
5. Test the detector after battery replacement.

7.2 Cleaning Your Detector

Clean your detector at least once a month to remove dust and debris that could affect its performance.

- Gently vacuum the exterior of the detector using the soft brush attachment of your vacuum cleaner.
- Wipe the surface with a slightly damp cloth. Do not use cleaning sprays or solvents.
- Never paint the detector.

8. Troubleshooting

If your detector is not functioning as expected, refer to the following table:

Problem	Possible Cause	Solution
Detector does not sound during test.	Dead or improperly installed batteries.	Replace batteries, ensuring correct polarity.
Yellow LED flashes and chirps every 60 seconds.	Low battery warning.	Replace all three AA batteries.
Yellow LED flashes and chirps irregularly.	Detector fault.	Clean the detector. If the fault persists, the unit may need replacement.
False alarm (smoke).	Steam, cooking fumes, dust, or high humidity.	Ventilate the area. Relocate the detector if false alarms are frequent due to environmental factors.
False alarm (CO).	Interference from certain chemicals or gases.	Ventilate the area. If alarms persist without a clear CO source, consult a professional.

9. Specifications

Technical details for the Vkdemer Smoke and Carbon Monoxide Detector (Model WJ-SC9120b):

- **Model:** WJ-SC9120b
- **Power Source:** 3 x AA Batteries (included)
- **Sensor Type:** Dual Optical (Smoke) and Electrochemical (CO)
- **Alarm Loudness:** ≥ 85dB at 10 feet (3 meters)
- **Operating Temperature:** 40°F (4.4°C) to 100°F (37.8°C)
- **Operating Humidity:** 10% to 95% RH (non-condensing)
- **CO Alarm Sensitivity:**
  - 70 PPM: Alarms within 60-180 minutes
  - 150 PPM: Alarms within 10-50 minutes
  - 400 PPM: Alarms within 4-15 minutes
- **Smoke Alarm Sensitivity:** Complies with UL217 standards.
- **Product Dimensions:** Approximately 4.2 inches (107 mm) diameter x 1.5 inches (38 mm) thickness
- **Sensor Life:** 10 years
- **Standards:** UL217, UL2034



Image 9.1: The detector features a sensor designed for a 10-year operational life, providing long-term protection.

10. Warranty and Support

Vkdemer products are manufactured to high-quality standards. For any questions or concerns regarding your detector, please contact Vkdemer customer service. Information regarding warranty coverage is typically provided with your purchase documentation or can be obtained by contacting the manufacturer directly.

Contact Information: Please refer to your product packaging or the retailer's website for the most current customer support contact details.

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