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› [CPVAN](#) /

› [CPVAN JKD-C621 Wireless Carbon Monoxide Detector User Manual](#)

CPVAN JKD-C621

CPVAN JKD-C621 Wireless Carbon Monoxide Detector User Manual

Model: JKD-C621

[Introduction](#)

[Safety Information](#)

[Product Features](#)

[Product Overview](#)

[Setup & Installation](#)

[Operating](#)

[Instructions](#)

[Maintenance](#)

[Troubleshooting](#)

[Specifications](#)

[Warranty & Support](#)

1. INTRODUCTION

Carbon monoxide (CO) is a highly poisonous gas that is colorless, odorless, and tasteless, making it undetectable by human senses. The CPVAN JKD-C621 Carbon Monoxide Detector is designed to continuously monitor CO levels in the air, providing accurate and sensitive detection with a fast response time to ensure your safety. This device offers continuous monitoring and alerts you to dangerous CO concentrations, minimizing false alarms.



Image 1: The CPVAN Carbon Monoxide Detector shown in different household environments, including a living room, bedroom, garage, and kitchen, highlighting its versatility for placement.

2. SAFETY INFORMATION

This CPVAN Carbon Monoxide Detector complies with the **EN 50291 standard** and is **CE Marked**, ensuring it meets European safety, health, and environmental protection requirements. It is crucial to understand that this device is intended to detect carbon monoxide gas. It is not designed to detect smoke, fire, or other gases.

- **Important:** Carbon monoxide alarms are not a substitute for smoke alarms.
- Regularly test the alarm as per the instructions in this manual.
- Do not paint the alarm or block its ventilation openings.
- Ensure the device is installed in an appropriate location as described in the installation section.

TÜV and CE Certified

Your safety is our top priority



EN50291-1:2018



Image 2: Certification logos for TÜV Rheinland and CE, indicating compliance with safety standards EN 50291-1:2018.

3. PRODUCT FEATURES

- **Digital Display:** Shows CO levels from 20 ppm.
- **High Sensitivity:** Alarms are triggered from 50 ppm, with alarm time dependent on concentration.
- **7-Year Sensor Life:** Provides continuous 24/7 protection.
- **Battery Powered:** Operates on three replaceable AA batteries (supplied), ensuring function during power outages.
- **Low Battery Warning:** Audible alert when batteries are low.
- **Loud Alarm:** An 85-decibel alarm combined with a flashing red LED for immediate alerts.
- **Easy Installation:** Wireless design, no wiring required. Comes with screws and wall plugs.



7 Years of Sensor Life

Uninterrupted 24/7 detection of CO



Image 3: The CPVAN Carbon Monoxide Detector highlighting its 7-year sensor life, ensuring long-term, uninterrupted 24/7 detection of CO.

Easy-to-Read LCD

Activates Automatically upon Installation

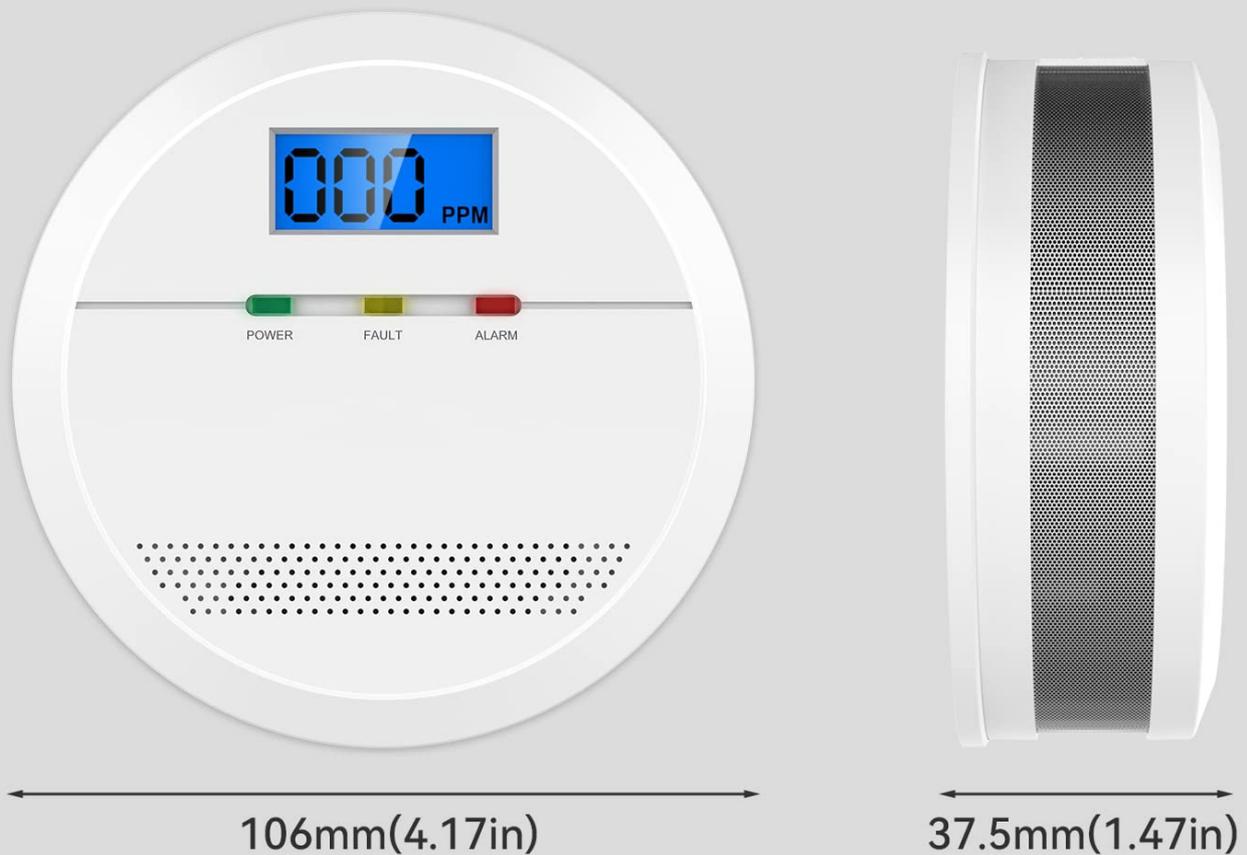


Image 4: A close-up of the CPVAN Carbon Monoxide Detector's easy-to-read LCD display, which activates automatically upon installation. Dimensions are shown as 106mm (4.17in) width and 37.5mm (1.47in) depth.

4. PRODUCT OVERVIEW

Familiarize yourself with the components of your CPVAN Carbon Monoxide Detector:

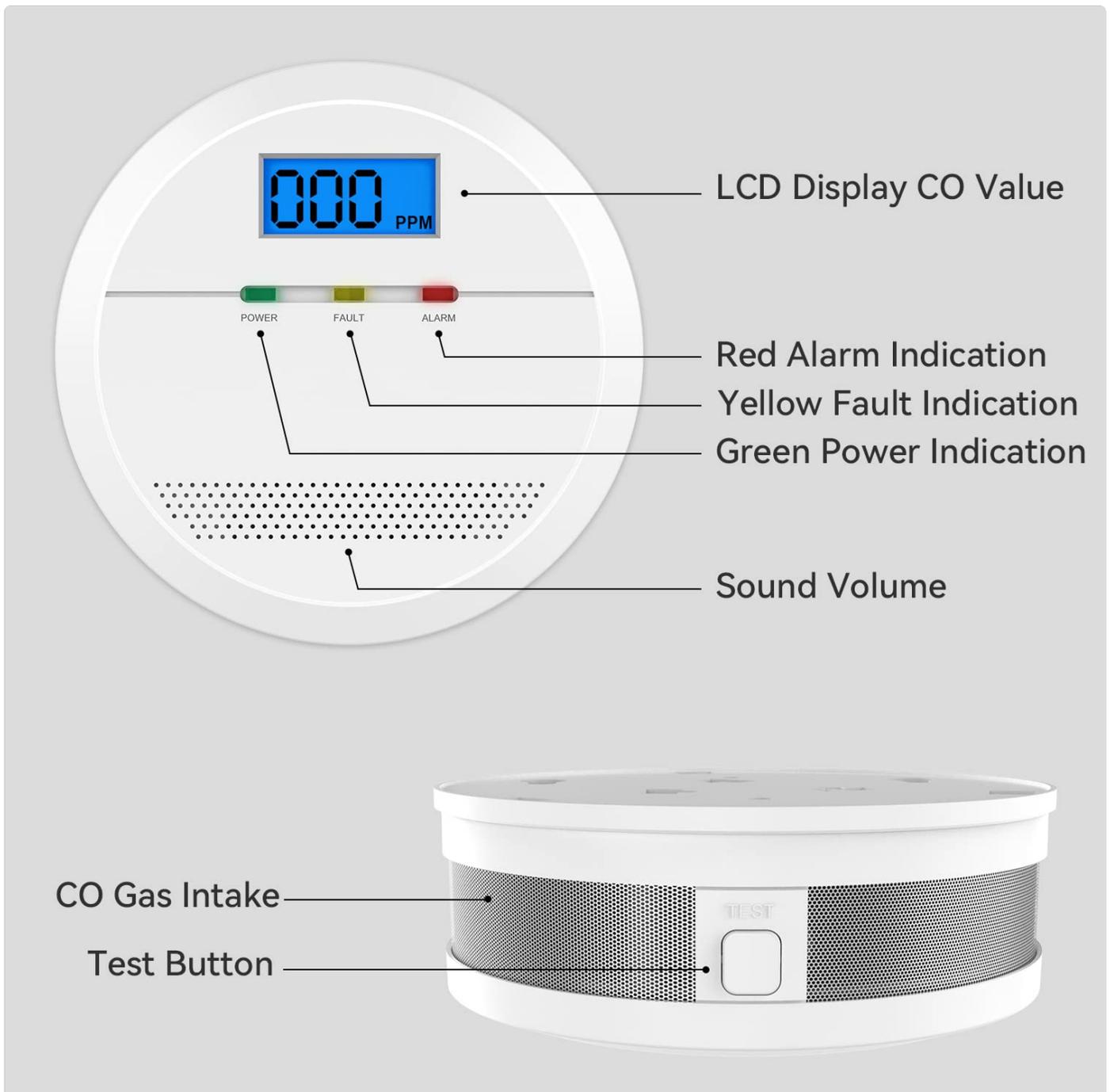


Image 5: A detailed diagram illustrating the components of the CPVAN Carbon Monoxide Detector, including the LCD Display (CO Value), Red Alarm Indication, Yellow Fault Indication, Green Power Indication, Sound Volume, CO Gas Intake, and Test Button.

- **LCD Display:** Shows the current CO concentration in parts per million (ppm).
- **Power Indicator (Green LED):** Flashes to confirm normal operation.
- **Fault Indicator (Yellow LED):** Illuminates to indicate a malfunction or low battery.
- **Alarm Indicator (Red LED):** Flashes during a CO alarm event.
- **Test Button:** Used to test the alarm's functionality.
- **CO Gas Intake:** Sensor area for detecting carbon monoxide.
- **Sound Volume:** Integrated speaker for audible alerts.

5. SETUP & INSTALLATION

5.1. Battery Installation

1. Open the battery compartment cover on the back of the detector.

2. Insert three AA batteries (supplied) into the compartment, ensuring correct polarity (+/-).
3. Close the battery compartment cover securely.
4. Upon battery installation, the LCD screen will activate and count down for approximately 30 seconds before displaying "000 ppm", indicating it is ready for use.

Replaceable Batteries and Low-Battery Alert



Replaceable
Batteries



Low Battery and
Malfunction Warning

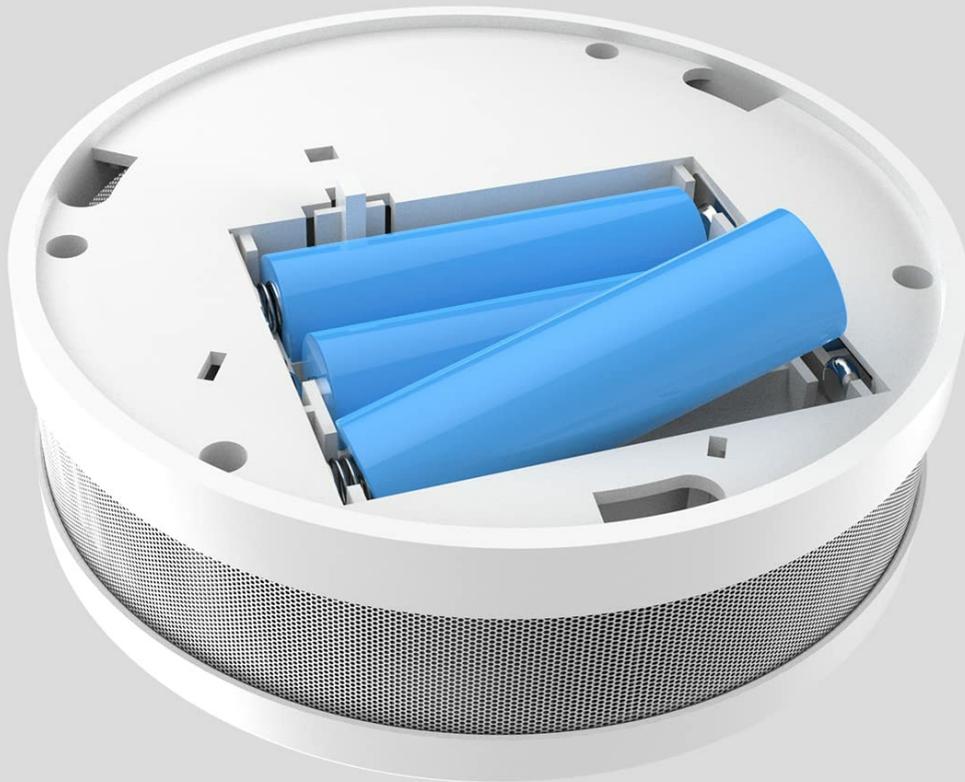


Image 6: An illustration showing the battery compartment of the CPVAN Carbon Monoxide Detector with replaceable AA batteries, alongside icons for replaceable batteries and a low battery/malfunction warning.

5.2. Mounting Location

For optimal detection, place the carbon monoxide detector near potential sources of CO, such as boilers, gas fires, and in rooms where people sleep. It can be wall-mounted, ceiling-mounted, or placed on a flat surface.

- Install at least 1.5 meters (5 feet) away from fuel-burning appliances to avoid false alarms from their normal operation.
- Avoid placing in direct sunlight, near ventilation openings, or in areas with high humidity.
- Do not install in areas where the temperature may drop below 0°C (32°F) or exceed 40°C (104°F).

5.3. Wall/Ceiling Mounting

1. Choose a suitable location on a wall or ceiling.
2. Use the provided screws and wall plugs to secure the mounting bracket.
3. Attach the detector to the mounting bracket by twisting it clockwise until it locks into place.

6. OPERATING INSTRUCTIONS

6.1. Normal Operation

Once installed with batteries, the detector will begin continuous monitoring. The green POWER indicator will flash periodically (e.g., every 30 seconds) to confirm normal operation. The LCD display will show "000 ppm" if no CO is detected.

6.2. CO Detection and Alarm Levels

The detector will display CO levels from 20 ppm. An alarm will be triggered based on the following concentrations and exposure times:

- **50 ppm:** Alarm within 60-90 minutes.
- **100 ppm:** Alarm within 10-40 minutes.
- **300 ppm:** Alarm within 0-3 minutes.

When an alarm is triggered, the red ALARM indicator will flash, and a loud 85-decibel siren will sound. The LCD will display the detected CO concentration.

A Wider Range of CO Detection

The alarm will be triggered with the CO concentration



Image 7: A graphic illustrating the CO detection ranges and corresponding alarm trigger times for the CPVAN Carbon Monoxide Detector: 50 ppm (60-90 minutes), 100 ppm (10-40 minutes), and 300 ppm (0-3 minutes). The detector's display shows "69 ppm".

6.3. 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 not re-enter the premises until the alarm has stopped and the area has been thoroughly ventilated.
3. Call your emergency services or gas supplier to report the incident.
4. Do not use fuel-burning appliances until they have been checked by a qualified technician.

6.4. Testing the Alarm

Press and hold the "TEST" button on the detector. The alarm will sound, and the red ALARM LED will flash, confirming the unit is functioning correctly. Release the button to stop the test. Test the alarm weekly.

7. MAINTENANCE

7.1. Battery Replacement

When the batteries are low, the yellow FAULT indicator will illuminate, and an audible warning will sound. Replace all three AA batteries promptly. Refer to section 5.1 for battery installation instructions.

7.2. Cleaning

Clean the detector regularly (e.g., monthly) using a soft, damp cloth. Do not use cleaning agents or solvents, as these can damage the sensor. Do not paint the detector.

7.3. End of Life

The sensor has a life expectancy of 7 years. After this period, the detector should be replaced to ensure continued protection. The device may indicate an end-of-life warning.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Alarm sounds intermittently or continuously without visible CO source.	Actual CO presence, false alarm due to interference, or detector malfunction.	Evacuate and ventilate immediately. Contact emergency services. If no CO is detected by professionals, check for strong fumes or aerosols near the detector. If problem persists, replace the unit.
Yellow FAULT LED illuminates and audible warning sounds.	Low battery or internal fault.	Replace all three AA batteries. If the fault indication persists after battery replacement, the unit may be faulty and needs replacement.
Detector does not respond to test button.	No batteries, dead batteries, or unit malfunction.	Ensure batteries are correctly installed and charged. Replace batteries if necessary. If still unresponsive, the unit is faulty and requires replacement.
LCD display is blank.	No power or unit malfunction.	Check battery installation and charge. The LCD only lights up when CO is detected or during a test. If the green POWER LED is not flashing, replace batteries or the unit.

9. SPECIFICATIONS

Feature	Detail
Model Number	JKD-C621
Brand	CPVAN
Sensor Type	Electrochemical
Power Source	3 x AA Batteries (replaceable)
Sensor Life	7 Years
Alarm Volume	85 dB at 1 meter
CO Detection Range	20 ppm - 999 ppm

Feature	Detail
Operating Temperature	0°C to 40°C (32°F to 104°F)
Operating Humidity	30% - 95% RH (non-condensing)
Dimensions	Approximately 106mm (Diameter) x 37.5mm (Depth)
Weight	200 Grams (excluding batteries)
Certifications	EN 50291, CE Marked
UPC	703145053619

10. WARRANTY & SUPPORT

CPVAN products are covered by a warranty. For specific warranty details, please refer to the documentation included with your purchase or contact CPVAN customer support. The CPVAN SECURITY team is dedicated to providing high-quality security products and offers technical support for their products.

For technical assistance or warranty claims, please visit the official CPVAN website or contact their customer service department using the contact information provided with your product.

