

成品尺寸：360*200mm

Interlinked Carbon Monoxide Alarm

User Manual

Model: JKD-624R



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PLEASE READ CAREFULLY AND SAVE!
Thank you for purchasing this carbon monoxide alarm equipped with digital LCD display! please read this instruction carefully before using the carbon monoxide alarm. retain this information in a safe and easily accessible place for future use and maintenance.

PRODUCT INTRODUCTION
Carbon Monoxide Alarm(CO alarm), use of high quality electrochemical sensors, combined with advanced electronic technology and sophisticated technology made of a stable work, long life and other advantages, can be placed on the wall and other installation methods, simple installation, easy to use.
Where carbon monoxide gas is present, once the concentration of carbon monoxide gas reaches the alarm setting value, the detector will emit an audible and visual alarm signal to remind you to quickly take effective measures to effectively avoid the occurrence of fire, explosion, suffocation, death and other malignancies.
WARNING
Exceeding the temperature and humidity allowable range may reduce or lose the detection function.

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• Gas boilers and Gas heater

• Oil and coal burning appliances

• Blocked flues and chimneys

• Waste gas from car garages

• Barbecues

Symptoms Indicated by Carbon Monoxide Concentration Poisoning

CO Concentration	Rough inhalation time and symptoms developed
50ppm	Maximum concentration bearable in 8 hours for healthy adults
200ppm	Light headache, weak, dim eyesight and nausea after 2-3 hours
400ppm	Forehead pain in 1-2 hours, threaten life after 3 hours
800ppm	Dim eyesight, nausea and spasm in 45 minutes, lose consciousness in 2 hours, death in 2-3 hours
1600ppm	Headache, dim eyesight and nausea in 20 minutes, death in 1 hour
3200ppm	Headache, dim eyesight and nausea in 5-10 minutes, death in 25-30 minutes
6400ppm	Headache, dim eyesight and nausea in 1-2 minutes, death in 10-15 minutes
12800ppm	Death in 1-3 minutes

2. Function and Indicators



No.	Function Indicate
1	Green power indication
2	Yellow fault indication
3	Red alarm indication
4	Sound volume
5	Concentration display
6	Testing button

WARNING
Demolition, replacement, damage to parts, collisions, may reduce or lose the detection function

3. Where to Locate the Carbon Monoxide Alarm

Install the alarm in the bedrooms or common activity places, or places where you think may generate or leak carbon monoxide. It's suggested to install at least one alarm in each floor of a multistory building to ensure everyone can hear the alarm in sleeping.
Ideally, it is advisable to install a detector in every room that has a fuel-use appliance, however, if there are more than one burning appliances and the number of detectors is limited, the following points need to be considered when determining the location:
• If the bedroom has a burning appliance, you need to install a detector in the bedroom.
• If there is a chimney-free or common flue gas appliance in the room, a detector must be installed in the room.
• If there is an electric appliance in a more-used room, such as a living room, a detector needs to be installed in the room.
• In a bedroom and living room, the detector should be as far away from

cooking appliances and sleeping areas as possible.

• If the appliance in an infrequent room, such as a boiler room, the detector need to be installed outside the room so that the alarm sound can be heard easily.

Detectors and fuel use appliances should be located in the same room. If the detector is mounted on a wall, its height should be higher than any window or door, but it must be at least 150mm from the ceiling.
The detector is at least 1m to 3m away from the potential gas source.
If there is a partition in the room, the detector should be on the same side of the partition as the source of potential gas.
The detector should be located very close to the area that the occupants often breathe.

WARNING
Drop, collision, may or complete loss of detection function.

Please avoid the following places unsuitable to install an alarm to avoid the damage or unnecessary false alarm or no alarm.
• Do not install the alarm behind drape or furniture.
• Do not install the alarm in a path of air discharged from a furnace or air conditioning vent or ceiling fan.
• Do not install the alarm in places that the temperature can easily drop to -10°C or rise to over 55°C.
• Do not install the alarm in places with much lampblack or dust, which will easily block its sensor.
• Do not install the alarm in too moist places.
• Do not install the alarm directly above a sink or cooker.

4. Installation Diagram



Note: Please use the same specification of 1.5V battery. If you use other low-capacity battery or mix the batteries of different manufacturers, it will shorten the life of the detector. when the battery is exhausted, the machine can not detect carbon monoxide, please replace the battery with new one.

WARNING
• **Be sure to test the product to ensure that the detector is functioning properly.**
• **Water mist or drip may cause electric shock and reduce the detection function.**
• **Cut off the power supply will not be able to play the detection function.**

5. How to Install the Carbon Monoxide Alarm

This CO alarm is powered by three LR6 AA batteries and requires no additional wiring, make sure the alarm can be heard from all sleeping areas or place several alarms.
Install the alarm in places easy to test and operate and to replace batteries. at the time of fixing the alarm on the wall, the installation height must be over 1.5m and 0.3m lower than the ceiling, with 1.5m away from room corners, wall edges and large furniture.
Wall mounting installation steps:
1) Having established the mounting location ensure that there is no electrical wiring or pipe work in the area adjacent to the mounting surface.

2) Mark the two mounting hole locations in a wall and drill holes in the marked position, insert wall plugs into the holes.

3) Lock the mounting bracket with the screws, tighten the screws properly.

4) Insert three AA batteries in the battery compartment with correct polarity mark on the rear of the detector. after a beep, close the battery cover, and then test whether the alarm is functioning properly by press the "TEST" button on the detector to make sure it is normal functioning.

5) Clip in the alarm into the mounting bracket.

CAUTION
For safety of the user the CO alarm cannot be mounted without its batteries. When replace the battery, test the alarm to make sure it is normal functioning.

WARNING!
This apparatus should be installed by a competent person.

6. Operation Instructions

1) The battery is correctly loaded into the detector with positive and negative polarity: the buzzer emits a "beep" sound and the detector starts to warn up for 90s, the LCD screen displays the count down, at this time, the detector has no detection function, after 90s, the detector enters the normal monitoring state and the LCD screen is normally closed. when the measured value of the measured gas in the air is bigger than 20x10⁴, the LCD displays the real-time concentration of the measured gas in the environment.

2) When the concentration of the measured gas in the environment reaches the alarm setting value, the detector emits an audible and visual alarm indication.

3) Green power indicator, flashing once every 40 seconds, indicating that the detector is working.

4) Red alarm indicator: when the detector enters the alarm state, the red alarm indicator flashes rapidly and the buzzer sounds at the same time. the alarm of the alarm signal makes four cycles, then turn off for 2 seconds until the CO concentration drops below the alarm setting value.

5) This CO alarm has an automatic self-test function to detect any failure of hardware, which is performed about every 1 minute in normal standby status.
Fault: Yellow fault indicator keeps on, LCD display "Er", the buzzer sounds 2 times per 8 seconds, indicating that the sensor has failed, at this time, there is no detection alarm function, please contact dealer for repair.
End of Life: The sensor max life is 10 years, when the life of the sensor ends, it will have a prompt, the buzzer sounds 3 times and yellow indicator flashes 3 times at the same time per 60 seconds, and LCD display "FAL". Please change a new detector.
Low battery: The battery capacity level is detected every 50s, when battery is under low voltage (≤3.6V), it will have a prompt, the buzzer sounds one time and yellow light flashes one time every 50 seconds. new batteries need to be replaced immediately.

WARNING
Please stop using permanently damaged alarm! Do not make unauthorized disassembly, repairing, or delivery to those authorized service points that are not designated by the manufacturer.

6) This CO alarm is provided with alarm and concentration data record function.
Test button: short press this button, the green/red/yellow light flash alternately, the buzzer sounds, the display shows the maximum peak concentration of the most recent alarm.
Press and hold the test button for more than 10 seconds, the peak record is cleared and the screen displays "0".

WARNING
Alarm record viewing is only a minor additional function for user to easily view and understand whether a carbon monoxide alarm occurred. the data record is only for reference and not for evidence of medical, accident and scientific data.

7. Display, Indicate illustrate

CONDITION	OPERATION	LED	HORN
Power up	Install 3*AA battery correctly	The green light flash one time	One short beep
Warm-up	After power up	Green light flashes one time every 2 second	None
Stand-by condition	After warm-up, the alarm turns to standby condition	The green light flashes one time every 40 seconds	None
Test condition	Press TEST button one time	Green / yellow / red lights flash alternately	The alarm sound four beeps
Alarm condition	The presence of carbon monoxide	Red light flashes one time every 0.5s	Four beep every 3 seconds
Low battery	None	Yellow light flashes every 50 seconds	One beep every 50 seconds
Malfunction	None	Yellow light turn on	Two beeps every 8 seconds

Note:
LCD concentration display maximum 999, all concentration value over 999 can only display 999ppm.

8. Maintenance

This detector has been calibrated before leaving the factory. It is only necessary to clean its housing frequently during use, to ensure that the hole in front of the detector is not blocked by dirt or dust. basic maintenance is not required, when cleaning the detector housing, wipe it with a clean, soft-bristled or dry flannel. do not use cleaners, bleach, or polishes. Maintained properly, the CO alarm will alert you to potentially hazardous CO concentration in the home, for keep the CO alarm proper working, it is recommended:

- Test your CO alarm every month.
- Vacuum cleaning regularly to prevent dust.
- Do not use cleaning solutions on the alarm.
- Keep away from solvents or detergents.
- Avoid spraying air-freshener, hair-spray near the alarm.
- Do not paint the alarm.

ATTENTION:
The following substances can affect the sensor and cause false alarms: Methane, Propane, Benzene, Toluene, Ethyl acetate, Iso-butane, Iso-propanol, Ethylene, Hydrogen Sulphide, Hydrogen, Sulphur Dioxide, alcohol based products, paints, thinners, solvents, adhesives, hair-sprays, aftershave or perfumes or some cleaning agents.

CAUTION:
This CO alarm is designed for indoor use only, do not expose to rain or moisture, do not open or tamper the alarm as this could cause malfunction and risk of electric shock.
Coverage detectors, improper use or maintenance may reduce or lose detection capabilities.

9. What to do in the Event of the Alarm Sound

WARNING:
Activation of the alarm indicates the dangerous CO level presence.

If the alarm sounds:

- 1) Immediately move to fresh air outdoor or open all doors and windows to ventilate the area and allow the carbon monoxide gas to disperse. stop using all fuel-burning appliances, if possible, ensure that they are turned off.
- 2) Immediately inform all other people to evacuate to safe outdoor regions with fresh air and count noses, ask for help from first-aid agencies by dialing or other means, safely ventilate the house after first-aid personnel arrives to eliminate the dangerous source. non-professional person without oxygen

supply and gas defense equipment shall not enter the dangerous regions again before the alarm removes the alarm status. If someone is poisoned or suspected of having been poisoned by carbon monoxide, please turn to the emergency medical institutions for help immediately.

3) If the alarm continues to sound, then evacuate the premises, alerting other occupants of the risk. Leave doors and windows open. Do not re-enter the premises.

4) Get medical help for anyone suffering the effects of carbon monoxide poisoning.

5) Telephone the appropriate appliance servicing and maintenance agency necessary, and the relevant fuel supplier on their emergency number, so that the source of carbon monoxide emissions can be identified and corrected. Unless the reason for the alarm is obviously spurious, do not use the fuel-burning appliances again, until they have been checked and cleared for use by a competent person according to national regulations.

WARNING:
The installation of the apparatus should not be used as a substitute for proper installation, use and maintenance of fuel burning appliances including appropriate ventilation and exhaust systems.
This product cannot prevent, detect and control your gas appliance and exhaust system.

WARNING:
Carbon monoxide alarm could not function as a replacement of smoke or gas alarm.
If multiple alarms occur again in 24 hours after a carbon monoxide leakage has occurred and been eliminated professionally, ask qualified agencies or professionals for troubleshooting your gas appliances and exhaust ventilation systems.

WARNING:
This detector is designed to protect individuals from the acute effects of carbon monoxide exposure, however, it may not prevent the chronic effects of carbon monoxide exposure and will not fully safeguard individuals at special risk or with specific medical conditions. If in doubt, consult a medical practitioner.

10. Common Faults and Solutions

Fault phenomenon	Cause of failure	Solution
The green power indicator is off	The alarm hasn't been powered on	Insert batteries correctly
	The indicator lamp has failed	Contact dealer or manufacturer for repairs
No alarm when press the "Test" button	Circuit failure	Contact dealer or manufacturer for repairs
	Preheating is not completed	Wait for the end of warm-up
No response to the test gas	Circuit failure	Contact dealer or manufacturer for repairs
	Smoking, drinking, or heavy use of volatile organics such as perfume, gasoline, banana water, and paint in the environment	Move to clean air and test whether its performance is normal
After the warm-up period is over, the detector continuous alarm	Circuit failure	Contact dealer or manufacturer for repair

11. Product Specifications

Product name: Carbon Monoxide Alarm
Model No.: JKD-624R
Software version number: V1.0
Communication protocol: RF433MHz

Frequency and max power: 433.92 MHz @ -14.96 dBm
Transmission Range: over 100m in open area
Supply voltage: DC4.5V (3x1.5V Exnnall AA Battery)
Battery life: 3 years
Battery low voltage: <3.6V
Standby current: <50uA
Alarm current: <70mA
Standard: EN50291-1:2018
Gas detected: Carbon Monoxide (CO)
Alarm concentration: 50ppm, Alarm within 60~90min
100ppm, Alarm within 10~40min
300ppm, Alarm within 0~3min
Operating environment: Temperature: -10°C ~55°C
Relative humidity: 95% No condensing
Atmospheric pressure: 86kPa~106kPa, Indoor use type
Sampling Method: Natural diffusion
Alarm Method: Sound, Lighting Alarm
Alarm volume: ≥85dB at 3m
Sensors: Electrochemical sensor
Max sensor lifetime: 10 years
Type: B
Weight: around 160g
Size: 105.0*39.0mm

12. How to Set up and Interconnect Wireless Alarms

All JIKAIDA wireless interlinked alarms contain a built-in RF module that enables you to wirelessly connect 2 or more interlinked alarms and create an interlinked network. when one unit is triggered, all interconnected alarms will sound.

The JIKAIDA series contain wireless interlinked smoke alarms, wireless interlinked carbon monoxide alarms, wireless interlinked gas alarms, wireless interlinked combination smoke and carbon monoxide alarms, and wireless interlinked combination gas and carbon monoxide alarms.
This model is designed to be wirelessly interlinked with other JIKAIDA alarms, but is not designed to communicate with wireless interlinked alarms from other manufactures.

12.1 How to create the interlinked network

Step 1: Quickly press the TEST button 5 times on one of these alarms, the green light flashes rapidly, the LCD shows rF2 and the backlight is on, indicating it has enter the transmitting mode (valid time: 120 seconds, in this state, hold down the button for 5 seconds to exit transmitting mode. Otherwise, the system automatically exits this mode after 120 seconds).

Step 2: Press the TEST button 3 times on the other alarms, the green light flashes rapidly, the LCD shows rF1 and the backlight on, indicating it has enter the receiving mode.

——If pairing is successful: the green LED of these alarms will stop flashing, and the buzzer "beep" one time.

——When it is failure, the green LED will continue to flash for 120 seconds, and then exit the code learning mode.

If you want to connect more units to this group, simply repeat step 1 and step 2.

After all units done interconnected and enter in standby mode, test the alarms according to the steps in the section "Interconnected Alarm Test".

12.2 How to Disconnect the Alarms

Press the TEST button 3 times on the alarms, the green light flashes rapidly, then hold down the button(approx. 5 seconds) until it beeps once to disconnect. After disconnecting, it can be reconnected to the same network, or added to a new network.

NOTES

1. A maximum of 30 alarms can be interconnected together.
2. Test all wireless alarms to ensure they are interconnected before installation.

3. The model can only be interconnected with other JIKAIDA wireless interlinked alarms.

12.3 Interconnected Alarm Test

If your device is interconnected to other wireless alarms, we recommend that every individual alarm is tested during the weekly test.

Press the test/silence button, the initiating alarm will beep 4 times with LED flashing. other interconnected alarms in the network will receive the signal and beep continuously with the LED flashing. After testing, the alarms will automatically enter standby mode.

12.4 Interconnected Silence Mode

If you press the silence button during an alarm state, the unit will be in the silence mode for 10 minutes. During the silence mode, the LED will flash continuously, the alarms will enter the normal mode after 10 minutes.

NOTES

1. You can silence all interconnected units by pressing the test/silence button on one of the alarms. If one units is still alarming, it is the initiating alarm (the unit that detected the target object), to silence all connected units, you must also press the test/silence button on the initiating alarm.

2. In the interconnected mode, the initiating alarm cannot be triggered again during the silence duration. However, all other interconnected alarms will be temporarily silenced and enter standby mode, and will alert again if they detected dangerous target levels.

3. If the CO concentration is above 300ppm, the silence function cannot be enabled.

13. Manufacturer Information:

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