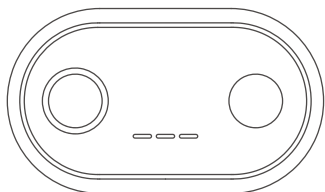




Carbon Monoxide alarm User's Manual

Model: **ACGL-001WXCO**
AJ-830SI4Y



▲ IMPORTANT

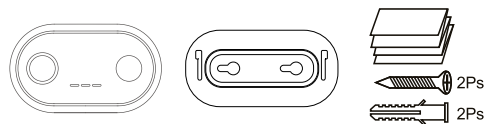
Please read and keep this manual for future reference. This manual contains important information about the operation of your carbon monoxide (CO) alarm.

- If you are installing this alarm for someone else, ensure that you leave this manual (or a copy) with the end user.
- This alarm uses advanced electrochemical CO sensors, which are effective in detecting colourless, odourless, tasteless, and highly toxic carbon monoxide gas.
- Prolonged exposure to CO can cause serious harm or death.
- For the most effective detection of slow-rising CO levels, an electrochemical CO alarm is essential.

Note: This device is designed to protect against the acute effects of CO exposure. It may not fully protect individuals with certain medical conditions. If in doubt, consult a medical professional.

PACKING LIST

Components name	Quantity
Electrochemical carbon monoxide alarm	1 pc
Screw	2pcs
Positioning Screw	2pcs
Wall hanging bracket	1pc

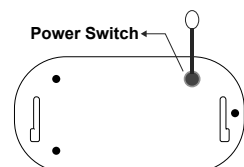


SPECIFICATIONS

The power supply mode	6V DC
Low Voltage threshold	5.6V DC
Sealed-in battery	2x3V lithium
Standby power consumption	<30uA
Product life	10 years
Battery life	10 years
Sensor Type	Superior CO electrochemical sensor
Working environment	-10~50°C 30~90%RH
Alarm concentration range pre-indication	Red LED low frequency flashing
Alarm Sound	>85dB/3m
Execution standard	EN50291-1:2018
Installation	Wall Hanging
RF Wireless Frequency	433.92Mhz

POWER ON

Press the button on the back of the alarm (use the small stick included in the package if necessary). The green light will flash, and the unit will begin a 1-minute warm-up process. Wait until the light turns off, then press the Test button to verify operation.



1. Carbon Monoxide – Risks and Protection

1.1 What is Carbon Monoxide?

Carbon monoxide is a colourless, odourless, tasteless, and highly toxic gas. Its density is similar to air, so it disperses easily into the environment. Common sources include:

- Gas leaks caused by aging or damaged domestic gas equipment.
- Poor ventilation when heating indoors in winter.
- Incomplete fuel combustion.
- Vehicle exhaust gases entering enclosed spaces.

1.2 Dangers of Carbon Monoxide

When inhaled, CO binds to haemoglobin in the blood, preventing oxygen transport. Effects include:

- Mild poisoning: Headache, dizziness, nausea, brief unconsciousness.
- Moderate poisoning: Cherry-red lips and nails, potential coma.
- Severe poisoning: Pale skin, dilated pupils, rapid death if exposure continues.

1.3 Protection Measures

- If CO poisoning is suspected, immediately open doors and windows for ventilation.
- Move the person to fresh air and allow them to rest.
- For severe cases, call emergency services immediately and begin first aid.
- Provide oxygen therapy as soon as possible.
- Teach children basic safety and evacuation procedures.

2. Function Indicators

1. Initialization: Green LED flashes continuously.
2. Normal Mode: Green LED flashes once every 50 seconds.
3. Alarm: Red LED flashes rapidly and the buzzer sounds “beep-beep-beep.”
4. Mute/Silence: Red LED flashes once every 10 seconds, buzzer silenced for approx. 10 minutes. Alarm reactivates if CO remains above threshold.
5. Fault: Yellow LED flashes twice every 60 seconds, with two “beep” sounds.
6. Low Battery: Yellow LED flashes three times every 60 seconds, with three “beep” sounds.
7. Test: Press the Test button. Device will display current status (alarm, fault, low battery).

Concentration range (1-1000PPM)	Alarm response time
>50PPM	No alarm
50-100PPM	Alarm after about 80min
100-300PPM	Alarm after about 30min
>300PPM	Alarm after about 50s

Note:

- When CO concentration $\geq$ 300 PPM, the alarm cannot be muted.
- If levels are below alarm response threshold, the device will pre-indicate with slow red LED flashes.

3. Wireless Interconnection Setup

1. Place the detectors to be connected within 1 meter of each other (keep non-paired units at least 2 meters away).
2. On one detector (the "Master"), press and hold the Test button until the green LED flashes 3 times, then release. The red LED will flash rapidly – this means it is in linking mode.
3. Other detectors will pair automatically, indicated by a single beep and a long green light.
4. If detectors are already paired with another group, they will beep rapidly and flash green. To connect them to the current group, press and hold the control button until the green LED flashes once, then release. A beep confirms successful pairing.
5. After pairing, press the control button once on the Master to finalize. All paired devices will beep once, and the green light will turn off.
6. To test the network, press the Test button on the Master. All linked detectors should sound (small delays are normal).

Reset/Unlink a Detector:

Hold the Test button until the green LED flashes 4 times, then release. The green LED will flash 3 times to confirm reset.

Memory Function:

The first alarm that is triggered will store the event in its memory. When all alarms return to normal operation, the first triggered device will beep three times per minute and flash the red light.

Press the control button on this device once to clear the memory. After memory is cleared, all paired alarms will activate and sound in sequence.

4. Installation Guidelines

Suitable Locations:

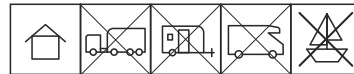
Family homes, caravans, and station wagons.

⚠ Warning: This alarm only detects CO where the sensor is installed. CO may be present in other areas.

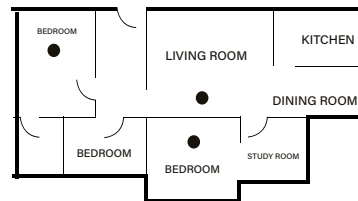
4.1 Which Rooms?

Ideally, install a CO alarm in every room. If this is not possible:

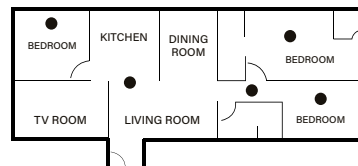
- Install in rooms where fuel-burning appliances are used.
- In bedrooms, place the alarm near the bed.
- If installed in an unused room (e.g., boiler room), position the alarm just outside the room for better audibility.



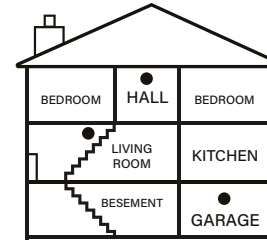
Single Story
One sleeping area



Single Story
More than one sleeping area



Two story dwelling



● CO alarms for limited protection

4.2 Installation Rules

- Place alarms 1–3 meters from fuel-burning appliances.
- If there is a partition wall, install the alarm on the same side as the appliance.
- In rooms with sloping ceilings, install high on the wall or ceiling.
- Do not block the alarm's air inlet.

Wall installation:

- Near the ceiling, at least 150 mm below it.
- Above door and window height.

Ceiling installation:

- At least 300 mm from walls, lights, or other obstructions.

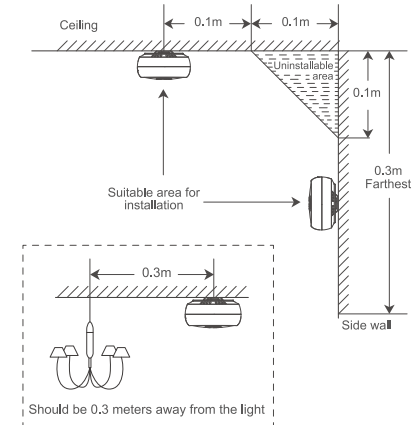
Bedrooms or remote rooms:

- Place alarms close to the occupant's breathing zone.

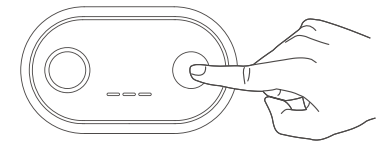
4.3 Caravans and Station Wagons

- Install according to the same rules as above.
- If only one living area exists, one alarm may be sufficient.
- Install additional alarms near sleeping areas separate from combustion appliances.

5. Installation Steps



1. Use the installation kit provided.
2. Select a location that meets the requirements in Section 4.
3. Mount the alarm bracket to the wall or ceiling with screws.
4. Power on the device.
5. Attach the alarm securely to the bracket.
6. Wait for initialization, then press the Test button. If the alarm responds normally, installation is complete.



6. Testing Instructions

- Never use fire, CO gas, or chemicals to test the alarm. Use only the Test button.
- Test weekly, and after returning home from holidays.
- Keep a safe distance during testing – the alarm is loud and may damage hearing.

- If you are using the optional remote-control device, point it in the direction of the alarm and press the test button.

NOTE: During test mode, Do not silence the alarm by pressing the hush button - the alarms will silence automatically after 10 seconds.

⚠ If the alarm fails testing, replace it immediately.

7. Fire Safety Practice

If the alarm sounds without pressing the Test button, treat it as a real emergency.

1. Ensure everyone recognizes the alarm sound.
2. Open windows and doors if safe to do so.
3. Evacuate to fresh air immediately.
4. Identify and practice escape routes.
5. Choose a safe outdoor meeting place.

8. Maintenance and Cleaning

This unit is designed to be as maintenance-free as possible, but there are a few simple things you must do to make it work.

1. Test the alarm at least once a week.
2. Clean weekly with a soft vacuum brush. Do not use water, solvents, or cleaners.
3. Replace the unit if heavily contaminated by dust or dirt.
4. Replace the unit when low battery warnings occur (yellow LED flashes 3 times with 3 beeps every 60 seconds).
5. If a fault is indicated (yellow LED flashes twice with 2 beeps every 60 seconds), replace the unit.
6. If dropped or damaged, reset the device or replace if malfunction persists.

⚠ Do not expose the alarm to cleaning chemicals, paint, or cooking fumes, which may reduce performance.

9. Limitations of the Carbon Monoxide Alarm

1. A CO alarm is effective only if properly installed and maintained, and if CO levels reach the alarm threshold.
2. Not everyone may hear the alarm (e.g., young children, elderly, people with hearing loss). Ensure an emergency plan accounts for this.
3. CO alarms are not foolproof – electronic devices can fail at any time. Weekly testing is required.
4. Limited lifespan: Replace the alarm every 10 years from the date of manufacture (see label on the back).

10. WARRANTY PERIOD

Limited warranty:

Your product is warranted against faults and manufacture when used in normal domestic use for a period of 2 years.

We undertake to replace this product at no charge if found to be defective due to a manufacturing fault during the warranty period. This warranty excludes damage caused by misuse, neglect, shipping accident, incorrect installation, or work carried out by anyone other than a qualified electrical service technician.

If your product fails to operate satisfactorily, please return it to the retailer from whom it was purchased to obtain a replacement product. You will need to produce satisfactory evidence of date

of purchase.

In New Zealand product is covered by the Consumers Guarantee Act (1993). In accordance with the act consumers are advised that: The manufacturer does not undertake that repair facilities and parts are necessarily available for this product.

For your convenience, please write down the following details

Alarm model NO.	
Date code	
Place Purchase	
Date of Purchase	

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