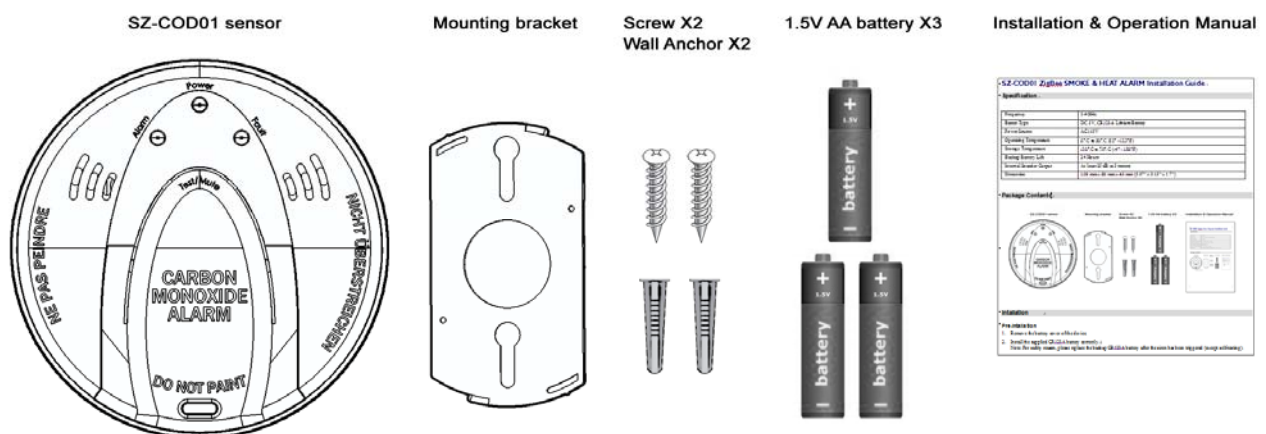# SZ-COD01 ZigBee Carbon Monoxide Alarm Installation Guide

The SZ-COD01 is a Carbon Monoxide Alarm that is designed to measure CO levels and sound an alarm before dangerous levels of CO accumulate in an environment. Carbon Monoxide, which is known as CO, is odorless, tasteless, transparent and toxic - it's a silent killer. The SZ-COD01 is a device that can be used to detect the presence of the CO gas in order to prevent carbon monoxide from poisoning human bodies.

Specification

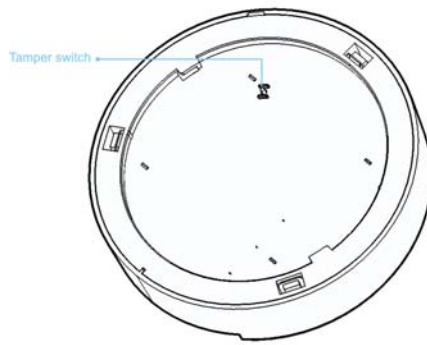| Sensor	Electrochemical carbon monoxide sensor
Batter Type	DC 4.5V (3 x AA 1.5V alkaline battery)
Operating Temperature	0° C to 50° C (32° - 122°F)
Operating Humidity	10% to 95% Non-condensing
Alarm Audibility	At least 85 dB at 3 meters
Dimention	125mm (diameter) x 35mm (depth)

Package Contents

LEDs

- **Power on Mode**: All three LEDs (Power/Alarm/Fault) blink and the device will beep for 0.5 second as soon as the batteries are installed.
- **Stand-by Mode**: The Power (green) LED flashes once every 60 seconds, which means the device is receiving power and functioning properly.
- **CO Alarm Mode**: When the device detects CO, the Alarm (red) LED flashes rapidly with repeating 4 quick loud beeps and another 4 quick beeps after pausing for 5 seconds.
- **Low battery Mode**: The Fault (yellow) LED flashes once and the device beeps once a minute. This warning should last for up to 30 days. Please replace the batteries before power is running out.
- **Malfunction (Error) Mode**: The Fault (yellow) LED flashes three times and the device beeps once a minute. This indicates the device is malfunctioned and needs to be replaced.
- **Low sensitivity (Aging) Mode**: The Fault (yellow) LED flashes twice and the device beeps once a minute. This means the device needs to be replaced.
- **End of life signal Mode**: The device will beep once and the yellow LED flashes four times a minute. This indicates the device is reaching the end of this useful life (around 5 years after the unit is purchased), please replace with the new SZ-COD01.

- **Tamper Mode**: The device will beep once a minute and the yellow LED is steadily on until the device is mounted back to the bracket properly.

Intallation

Battery Installation/Replacement

1. Press the transparent locker of the device and remove the battery cover.

2. Install the supplied three AA batteries correctly.

3. Attach the battery cover to the device.
   Note: The battery cover cannot be closed if the three AA batteries are not installed properly.

4. The device will beep and all the LEDs will flash for about 0.5 second after batteries are properly installed.

Recommended Battery Type

Please use the following suggested battery. Use of a different battery may cause a detrimental effect on alarm operation.
- AA 1.5V Energizer # E91 Alkaline battery
- AA 1.5V Energizer #L91 lithium battery

Locations to install your SZ-COD01

The suggested location for installing the device is in or near sleeping areas of your home. For maximum protection, the SZ-COD01 should be located outside primary sleeping areas or on each level of your home.
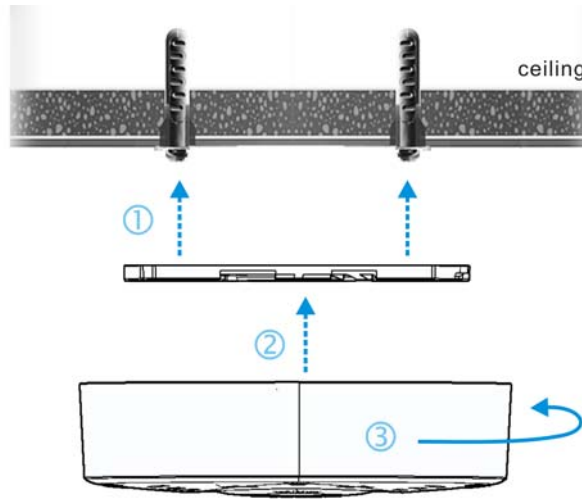

Do not place the device in the following areas:
- Where the temperature may drop below 40(4.4℃) or exceed 100℉ (37.8℃)
- Near paint thinner fumes
- Within 5 feet (1.5 meter) of open flame appliances such as furnaces, stoves and fireplaces
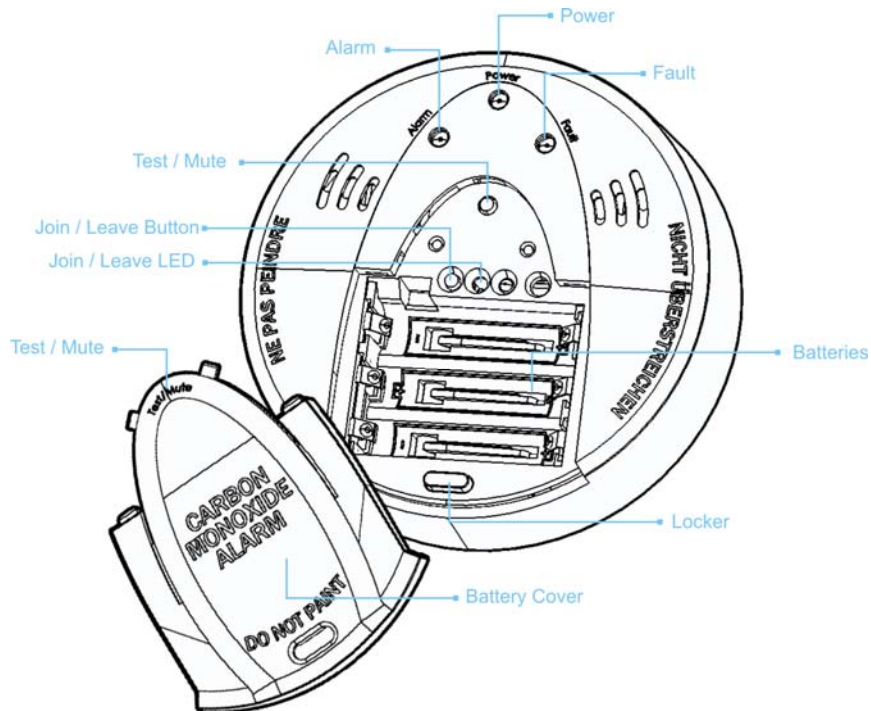- In exhaust streams from gas engines, vents, flues or chimneys

- Do not place in close proximity to an automobile exhaust pipe; this will damage the device

Wall Mounting

1. Draw a six inches horizontal line at the place where you are going to install the device.
2. Rotate the mounting bracket counterclockwise to remove it from the device.
3. Draw 2 marks to locate the mounting plugs and screws.
4. Drill two holes at the marks and insert wall plugs.
5. Attach the bracket to the wall by using the supplied two screws and wall plugs.
6. Attach the device onto the mounting bracket and turn it clockwise to fix it into place. Make sure it is securely attached to the mounting bracket.

Adding/Leaving to a ZigBee Network

1. **Join Function**

   For "Join" a network, please do the following instruction:

   - Press the **Join/Leave** button for less than 1 second. The Join/Leave LED is blinking while processing. If the device has been joined with the controller successfully, the Join/Leave LED will be on for 2 seconds and then off. The Join/Leave LED will be off instantly if failed.

2. **Leave Function**

   For "Leave" a network, please do the following instruction:

   - Press **Join/Leave** button for 10 seconds to let the device disassociate from the controller. The Join/Leave LED will be on for 1 second and then off.

3. **Test/Mute Button**

   The Test/Mute button is used to test if the device is working properly and mute the SZ-COD01 during alarm.

   - **Test**

   After pressing the **Test/Mute** button, the device will generate 4 short beeps and all three LEDs (Power/Alarm/Fault) will flash for 5 seconds. The device will repeat this process again.

   - **Mute**

   If the device is alarming, press the Test/Mute button will have it silenced. While at the same time the Alarm (red) LED will keep flashing. If the CO concentration still remains after 4 minutes, the alarm system will reactivate.

Note:
- The Join/Leave LED will stay off during the normal operation.
- The device is equipped with a tamper switch. If the device is removed, it will send an alarm message to the ZigBee controller.

When SZ-COD01 is alarming

WARNING!! Actuation of your SZ-COD01 indicates the presence of carbon monoxide (CO), which can be fatal to human body. Please take the following actions:

1. Operate **Test/Mute** button.

2. Call your emergency services or fire department.

3. Immediately move to somewhere with fresh air (outdoor or by an open door window).

If CO gas has being detected, your SZ-COD01 will go into the **CO alarm** mode.Try to take the following necessary actions immediately:

(a) If there is anyone experiencing the effects of carbon monoxide poisoning such as headache, dizziness, nausea or other flu-like symptoms, call the fire department immediately. You should evacuate all the people in the premises immediately. Do a head count if necessary.

(b) Do not re-enter the premises until the problem has been corrected and the CO gas has been dispersed out.

(c) If no symptoms occures, immediately ventilate the home by opening windows and doors. Turn off fuel burning appliances and call a qualified technician or your utility company to inspect and repair your problem before restarting appliances.

Actions to take after the problem being corrected

Once the problem of the CO gas has been corrected, the alarm of the device should be off. Push the **Test/Mute** button after 10 minutes to test the device so that you can make sure that it is working properly again.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

CE Approval

CE Standards

This product complies with the 99/5/EEC directives, including the following safety and EMC standards:

- EN50291
- EN55022/24

CE Marking Warning

This is a Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

UL Notices: This device complies with UL Standard 2034.