

RISCO

CO Detector

Model: RWT6CO / RWX6CO

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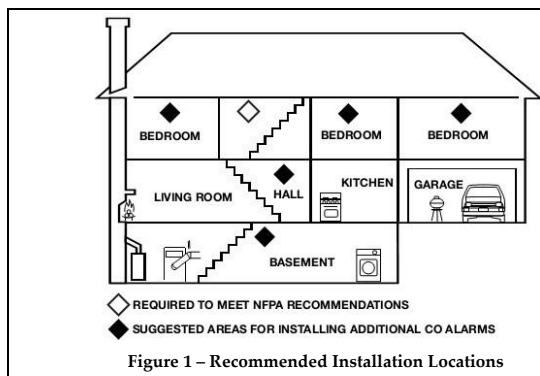


Figure 1 - Recommended Installation Locations

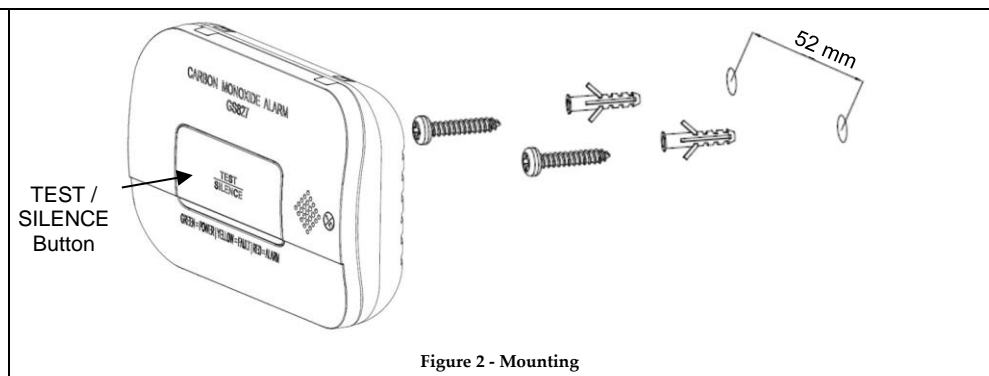


Figure 2 - Mounting

1. Description

The CO Detector is used for detecting the buildup of Carbon Monoxide. Upon detecting the CO gas, the unit emits an alarm and notifies the control panel.

Note: This CO alarm is designed to detect carbon monoxide gas from any source of combustion. It is not designed to detect any other gas.

What you should know about Carbon Monoxide

CO cannot be seen, smelled, or tasted and can be fatal. The buildup of CO in the blood is called the carboxyhemoglobin (COHb) level and interferes with the body's ability to supply itself with oxygen. Depending on the concentration, CO can kill in minutes.

The most common sources of CO are malfunctioning gas appliance used for heating and cooking, vehicles running in an attached garage, blocked chimneys or flues, portable fuel burning heaters, fireplaces, fuel powered tools and operating a grill in an enclosed space.

Indications of carbon monoxide poisoning include symptoms similar to the flu, but with no fever. Other symptoms include dizziness, fatigue, weakness, headache, nausea, vomiting, sleepiness and confusion. Everyone is susceptible to the danger of CO, but experts agree that unborn babies, small children, pregnant women, senior citizens and people with heart or respiratory problems are at the highest risk for serious injury or death. Every year a qualified technician should inspect and clean your heating system, vents, chimney, and flues.

The following symptoms are related to CARBON MONOXIDE POISONING and should be discussed with ALL members of the household:

- Mild Exposure: Slight headache, nausea, vomiting, fatigue (often described as "Flu-like" symptoms).
- Medium Exposure: Severe throbbing headache, drowsiness, fast heart rate.
- Extreme Exposure: Unconsciousness, cardiorespiratory failure, death.

The above levels of exposure relate to healthy adults. Levels differ for those at high risk. Exposure to high levels of carbon monoxide can be fatal or cause permanent damage and disabilities. Many cases of reported carbon monoxide poisoning indicate that while victims are aware they are not well, they become so disoriented they are unable to save themselves by either exiting the building or calling for assistance. Also, young children and household pets may be the first affected. Familiarization with the effects of each level is important.

WARNING! Exposure to high levels of carbon monoxide can be fatal or cause permanent damage and disabilities.

CAUTION:

- This CO alarm is designed for indoor use only. DO not expose to rain or moisture. DO not knock or drop the detector. DO not open or tamper with the alarm as this could cause malfunction.
- The alarm will not protect against the risk of carbon monoxide poisoning when the battery has drained.
- Installation of the alarm should not be used as a substitute for proper installation, use and maintenance of fuel burning appliances including appropriate ventilation and exhaust systems.

2. Installation

Step 1: Selecting the Mounting Location

When choosing your installation locations, make sure you can hear the alarm from all sleeping areas. If you install only one CO alarm in your home, install the alarm near bedrooms, not in the basement or furnace room. The recommended position for the unit should be at least 1.8 meters (about 6 feet) above the floor level.

Step 2: Recommended Installation Locations (Figure 1)

The following suggestions are intended to help you with the placement and installation of your CO alarm.

- Place out of the reach of children. Under no circumstance should children be allowed to handle the CO alarm.
- Install in a bedroom or hallway located close to the sleeping area. Take special care to verify the alarm can be heard in sleeping areas.
- It is recommended that a CO alarm be installed on each level of a multilevel home.
- Locate 1-3 meter (3.3-10feet) away from all fuel burning appliances.
- Placing at eye level allows for optimum monitoring of the red and green indicator lights.
- Ensure that all vents of the unit are unobstructed.
- Do not install in dead air spaces such as peaks of vaulted ceilings, or gabled roofs.
- Do not install in turbulent air from ceiling fans.
- Do not place near fresh air vents or close to doors and windows that open to the outside.
- Keep the CO alarm away from excessively dusty, dirty, or greasy areas such as kitchens, garages and furnace rooms. Dust, grease and household chemicals can affect the sensor.
- Keep out of damp and humid areas such as the bathroom. Avoid spraying aerosols near the CO alarm.

Step 3: Mounting (Figure 2)

1. Drill two ϕ 5.0mm holes in the wall; the distance between two holes center should be 52mm (2 inches).
2. Insert the two supplied plastic stoppers into the holes until the screw heads are approximately 5mm from the wall.
3. Test the unit by pressing the TEST/SILENCE button (see Figure 2). Ensure the unit sound is of the alarm pattern.
4. Hook the unit over the screws and then onto the keyholes in the back of unit.

3. Using your CO Alarm Detector

Start Up

After connecting the battery, all three LEDs light up briefly and the CO alarm confirms start-up with a beep.

After power on, the green LED flashes once per second within 60 seconds indicating the preheated state. 60 seconds later the green LED flashed every 40 seconds indicating that the unit is functioning properly.

Registering the CO Detector to the System's Receiver

For the CO Detector to identify itself to the system's receiver, perform the registration either by entering the CO Detector's 11-digit serial code number or by the following RF allocation steps.

Note: In case of performing device registering (enrollment) by entering the detector's 11-digit serial number, make sure to use the serial number of the Main Unit (by scanning the QR sticker on the package via the HandyApp application).

1. Set the system to Learn Mode.
2. Remove the batteries from the battery compartment and then reinsert the batteries, paying attention to the polarity.
3. Wait until the system receiver indicates that it has received the allocation message.

LED Indication

LED	State	Description
Green	Flash every 40 sec.	Normal condition
Yellow	Steady	Trouble
Red	Steady	CO alarm status

Fault Warning Silence

When the alarm sounds in the fault warning state, pressing the TEST/SILENCE button will cause the detector to enter silence status for about 9 hours. The FAULT indicator (yellow LED) will flash repeatedly.

Low Battery Voltage Warning

If the alarm beeps once every 40 seconds, the FAULT indicator (yellow LED) will flash. This indicates low battery state.

Notes:

- You need to replace the batteries immediately when the alarm enters this state.
- The alarm will not protect against the risk of carbon monoxide poisoning when the battery has drained.
- Low battery voltage warning sounds (refer to "4. Battery Replacement").

Low Battery Voltage Warning Silence

When the alarm sounds in the low battery warning state, pressing the TEST/SILENCE button will result in the alarm being silenced for about 9 hours. The FAULT indicator (yellow LED) will flash repeatedly.

Note: Replace the battery to ensure normal working condition.

End of Life Warning

If the alarm beeps 3 times every 40 seconds and the FAULT indicator (yellow LED) flashes, this indicates end of life of the CO alarm. In this case, replace the CO alarm.

End of Life Warning Silence

When the alarm is in the end-of-life warning, pressing the TEST/SILENCE button will cause the detector to enter silence status for about 9 hours. The FAULT indicator (yellow LED) will flash repeatedly.

CO Alarm Warning

When the alarm detects a dangerous level of CO, the alarm will emit a loud alarm pattern of 4 short beeps followed by 5 seconds of silence. This cycle repeats itself as long as a dangerous CO condition exists. The red alarm LED will flash in the same pattern.

This signal will repeat until the alarm resets after dissipation of CO.

Sensitivity Setting: Conforms to EN 50291-1:2018 standard.

30PPM	Without alarm before 120 minutes
50PPM	Between 60 to 90 minutes
100PPM	Between 10 to 40 minutes 300PPM
300PPM	Less than 3 minutes

Note: Refer to "5. Actions to Take When Alarm Sounds" when you hear the sounds of the CO alarm warning.

CO Alarm Warning Silence

When the device is in CO alarm mode, pressing the TEST/SILENCE button will pause the detector's alarm sound for about 10 minutes. The ALARM indicator (red) will keep flashing to indicate the detector is entering the CO alarm silence mode.

Notes:

- The audible alarm signal will reactivate about 10 minutes from the time the TEST/SILENCE button is operated where the concentration of CO surrounding the alarm remains at 50 PPM or greater.
- The audible alarm signal cannot be silenced if the alarm is at concentration above 200 PPM.
- The alarm silencing activation is once throughout a CO alarm period.

WARNING!-Before you enable the CO alarm warning silence feature, you should assume that the alarm is due to dangerous levels of carbon monoxide and the residence should be evacuated.

Human Alarm Sounds

If the alarm enters the CO alarm warning status, the alarm will begin sounding in a lower alarm volume (<85dB) for the first 8 sounds, then issuing a normal alarm volume (>85dB). This is to prevent people from being frightened by the sudden intensity of the alarm sound.

Test the unit

To test the alarm, press and hold TEST/SILENCE button (see Figure 2). You should hear the alarm sound pattern with a corresponding ALARM indicator (red LED) flash and an alert message is sent to the system's receiver. The alarm sound patterns will stop when the TEST/SILENCE button is released.

The test alarm sound pattern includes: 4 short beeps followed by 5 seconds of silence. Repeat the pattern until you release the TEST/SILENCE button.

Notes:

- After the TEST/SILENCE button is enabled, the alarm sounds and the red alarm light flashes. This does not indicate that CO is present.
- Test the unit weekly! If at any time your unit does not perform as described, replace it immediately.

4. Battery Replacement

When two beeps with a corresponding FAULT indicator (yellow LED) flash twice every 40 seconds, this indicates low battery. Replace the battery with the specified battery, (see "7. Technical Specifications").

To install or replace the battery in unit, please perform the following steps:

1. Take down the unit from the screw heads on the wall.
2. Open battery compartment.
3. Remove the old battery and replace with a new battery.
4. Check the alarm; the green LED should flash once a second in the first 60 seconds. If not, remove the battery and put back again.
5. Close the battery compartment.
6. Hook the alarm body over the screw heads onto the keyholes in the back of the unit.
7. Perform a test alarm using the TEST/SILENCE button. If the testing alarm is ok, this indicates that the product is operating normally.

WARNING! Use only the battery specified. Use of different battery may have a detrimental effect on the CO alarm. A good safety measure is to replace the battery at least once a year.

Note: Reinstall immediately after cleaning and then test unit using the TEST/SILENCE button!

5. Actions to Take When Alarm Sounds

WARNING!

Actuation of your CO alarm indicates the presence of Carbon Monoxide (CO) which can KILL YOU. Action of this device indicates the presence of dangerous levels of CO! CO can be fatal!

If the alarm sounds:

1. Press the TEST/SILENCE button (see Figure 2).
2. Shut down furnaces and gas supply.
3. Immediately move outdoors to fresh air or by an open door/window. Check that all persons in the area are accounted for. Do not reenter the premises nor move away from the open door/window until the emergency services responders have arrived, the premises have been aired out, and your alarm remains in its normal condition.
4. If your alarm reactivates within a 24-hour period, repeat steps 1-3 and call a qualified technician to investigate for sources of CO from fuel burning equipment and appliances and for proper operation of this equipment. If problems are identified, the equipment should be immediately serviced.

Note: Make sure that motor vehicles are not or have not been operating in an adjacent garage to the residence.

6. Maintenance

To keep your CO alarm in good working order, please follow these simple steps:

- Verify operation of the unit's alarm sound and indicators by pressing the TEST/SILENCE button once a week.
- Remove the unit from the wall and clean the alarm cover and vents with a soft brush attachment once a month to remove dust and dirt.
- Never use detergents or other solvents to clean the unit.
- Avoid spraying air fresheners, hair spray, or other aerosols near the CO alarm.
- Do not paint the unit. Paint will seal the vents and interfere with the sensor's ability to detect CO. Never attempt to disassemble the unit or clean inside. This action will void your warranty.
- As soon as possible, place the CO alarm back in its proper location to assure continuous protection from carbon monoxide poisoning.
- When household cleaning supplies or similar contaminants are used, the area should be ventilated.

WARNING:

The following substances can affect the sensor and may cause false actions: methane, propane, isobutene, isopropanol, ethylene, benzene, toluene, ethyl acetate, hydrogen sulfide, sulfur dioxides, alcohol-based products, paints, thinner, solvents, adhesives, hair sprays, aftershave, perfumes and some cleaning agents.

Your CO alarm will not be operational and will not monitor for CO levels without battery.

This apparatus is designed to protect individuals from the acute effects of carbon monoxide exposure. It will not fully safeguard individuals with specific medical conditions. If in doubt consult a medical practitioner.

7. Technical Specifications

Parameter	Description
Power Supply	3V DC (2pcs alkaline battery)
Battery Type	AA 1.5V
Current Consumption	<20 μ A standby (average)
Power Output	10mW Max.
Product Life	10 years after manufacture
Sensor Type	Electrochemical
Model Type	B
Alarm Current	<30mA (average)
Operating Temperature, Ambient Condition	-10°C +40°C (14°F +104°F), 30-95% non-condensing
Storage Temperature, Ambient Condition	-20°C +50°C (-4°F +122°F), 10-95% non-condensing
Alarm Sound	≥85DB at 3m @3.2±0.5KHz pulsing alarm
CO Alarm Silence	10 min. approx.
Other Warning Silence	9 hrs approx.
Detection Range	40 m2 max. indoors
Frequency	433.92MHz, 868.65MHz

8. Ordering Information

P/N	Description
RWT6CO40000B	1-Way WL CO DETECTOR 433MHz
RWT6CO80000B	1-Way WL CO DETECTOR 868MHz
RWX6CO40000A	2-Way WL CO DETECTOR 433MHz
RWX6CO80000A	2-Way WL CO DETECTOR 868MHz

UKCA and CE RED Compliance Statement:

Hereby, RISCO Group declares that this equipment is in compliance with the essential requirements of the UKCA Radio Equipment Regulations 2017 and CE Directive 2014/53/EU.

For the UKCA and CE Declaration of Conformity please refer to our website: www.riscogroup.com

Standard Limited Product Warranty ("Limited Warranty")

RISCO Ltd. ("RISCO") guarantee RISCO's hardware products ("Products") to be free from defects in materials and workmanship when used and stored under normal conditions and in accordance with the instructions for use supplied by RISCO, for a period of (i) 24 months from the date of delivery of the Product (the "Warranty Period"). This Limited Warranty covers the Product only within the country where the Product was originally purchased and only covers Products purchased as new.

Contact with customers only. This Limited Warranty is solely for the benefit of customers who purchased the Products directly from RISCO or from an authorized distributor of RISCO. RISCO does not warrant the Product to consumers and nothing in this Warranty obligates RISCO to accept Product returns directly from end users who purchased the Products for their own use from RISCO's customer or from an installer of RISCO, or otherwise provide warranty or other services to any such end user directly. RISCO's authorized distributor or installer shall handle all interactions with its end users in connection with this Limited Warranty. RISCO's authorized distributor or installer shall make no warranties, representations, guarantees or statements to its end users or other third parties that suggest that RISCO has any warranty or service obligation to, or any contractual privity with, any recipient of a Product.

Remedies. In the event that a material defect in a Product is discovered and reported to RISCO during the Warranty Period, RISCO shall accept return of the defective Product in accordance with the below RMA procedure and, at its option, either (i) repair or have repaired the defective Product, or (ii) provide a replacement product to the customer.

Return Material Authorization. In the event that you need to return your Product for repair or replacement, RISCO will provide you with a Return Merchandise Authorization Number (RMA#) as well as return instructions. Do not return your Product without prior approval from RISCO. Any Product returned without a valid, unique RMA# will be refused and returned to the sender at the sender's expense. The returned Product must be accompanied with a detailed description of the defect discovered ("Defect Description") and must otherwise follow RISCO's then-current RMA procedure published in RISCO's website at www.riscogroup.com in connection with any such return. If RISCO determines in its reasonable discretion that any Product returned by customer conforms to the applicable warranty ("Non-Defective Product"), RISCO will notify the customer of such determination and will return the applicable Product to customer at customer's expense. In addition, RISCO may propose and assess customer a charge for testing and examination of Non-Defective Product.

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