**RE613 CryptiX™-Compatible CO Alarm**

**Features**
- UL2034 Listed
- Sleek design
- Wall tamper
- Strong, reliable RF signal
- Low Battery indication.

**Key Instructions**
1. Read the “INSTALLING YOUR CO ALARM” section:
   - Install your CO Alarm.
2. Enroll the CO Alarm in panel:
   - Place panel in enrollment mode
   - Press & hold TEST button until you hear the sounder beep.
   - Panel will learn the CO Alarm.
3. Test the CO Alarm is enrolled in the panel:
   - Press & hold TEST button until you hear the sounder beep.
   - Panel will indicate a CO Test.
4. Read the “WEEKLY TESTING OF YOUR CO ALARM” section:
   - Test the functionality of the CO Alarm.

**Operation**

<table>
<thead>
<tr>
<th>Situation</th>
<th>Sounder Description</th>
<th>LED Description</th>
<th>Wireless Signal to Panel</th>
<th>Recovery Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actual CO</td>
<td>Temporal 4 Beeps (Loud) Every 5 seconds</td>
<td>RED (pulsing)</td>
<td>Wireless CO Alarm signal sent to panel</td>
<td>When CO is no longer present. TEST button will silence sensor for 4 minutes.</td>
</tr>
<tr>
<td>Press &amp; hold Test Button</td>
<td>2 x Temporal 4 Beeps (Loud), 5 second separation</td>
<td>RED, Green, &amp; Yellow (pulsing)</td>
<td>Wireless CO Test signal sent to panel</td>
<td>Sensor: Restore by releasing the test button.</td>
</tr>
<tr>
<td>Removing Sensor from Mount</td>
<td>1 Chirp Every minute</td>
<td>Yellow (steady)</td>
<td>Tamper/Trouble signal to be sent to panel.</td>
<td>Sensor: Restore by remounting.</td>
</tr>
<tr>
<td>Low Battery</td>
<td>1 Chirp Every minute</td>
<td>Yellow flashes 1 time in a minute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hourly Check</td>
<td></td>
<td>Supervisors, every hour</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low Sensitivity</td>
<td>1 Chirp Every minute</td>
<td>Yellow flashes 2 times a minute</td>
<td>Supervisors Not Sent</td>
<td>Replace Unit</td>
</tr>
<tr>
<td>Malfunction</td>
<td>1 Chirp Every minute</td>
<td>Yellow flashes 3 times a minute</td>
<td>Supervisors Not Sent</td>
<td>Replace Unit</td>
</tr>
<tr>
<td>End Of Life</td>
<td>1 Chirp Every minute</td>
<td>Yellow flashes 4 times a minute</td>
<td>Supervisors Not Sent</td>
<td>Replace Unit</td>
</tr>
</tbody>
</table>

**Specifications**
- **Agency Approvals:** UL2034 Single Station Carbon Monoxide Alarm
- **CO Sensitivity:**
  - 70ppm 60-120 minutes
  - 150ppm 10-50 minutes
  - 400ppm 4-15 minutes
- **CO Sensing Technology:** Electrochemical
- **Alarm Sound:** Temporal Three
- **Replacement Battery:**
  - 3 Energizer Alkaline AA (#E91)
  - 3 Energizer Lithium AA (#FL91)
- **Temperature Range:**
  - 32 to 120°F (Long Term)
  - 0 – 95% Relative Humidity
- **Housing dimensions:**
  - 4.9 inch diameter, 1.4 inch high
- **Frequency:**
  - 433.92 MHz
- **System Compatibility:**
  - RE6100 series panels with capacity of up to 96 zones
- **User’s Manual:**
  - 47-0002-08 RevX01
- **Design & Manufacture:**
  - Resolution Products, Inc.
  - 1402 Heggen Street
  - Hudson, WI 54016

**Attention**
This manual should be read prior to use and retained for further information.
When replacing the batteries use the below recommended battery type only.

1. 3 Energizer Lithium AA (LR6)
2. 3 D-Cell Energizer Alkaline (V27A)

**CAUTION!** Use only the batteries specified in this manual. Use of a different battery may have a detrimental effect on alarm operation.

**LOCATIONS TO INSTALL YOUR CO ALARM**

Since CO gas moves freely in the air, the suggested locations in the figure below are not as close to possible to sleeping areas of the home. The human body is most vulnerable to the effects of CO gas during sleeping hours. For maximum protection, all CO alarms should be located inside primary sleeping areas and at each level of your home. In the figure below are suggested locations in the home. The electronic sensor detects carbon monoxide, measures the concentration and sounds a loud alarm before a potentially harmful level is reached.

**LOCATIONS NOT TO INSTALL YOUR CO ALARM**

Vacuum the dust off the CO alarm at least once a month.

Do not place the CO alarm in the following areas:

(a) Where the normal ambient temperature may drop below 32°F (0°C) or exceed 120°F (49°C)
(b) Near an open window or door
(c) Near a vent or air duct
(d) Near water pipes or water heaters
(e) In excessively dirty areas

Do not place the alarm in the following locations:

- Sinks
- Bathrooms
- Unvented gas appliance
- Radiant heat
- Unheated basements
- Attics
- Inadequate ventilation
- Pills

Keep the CO alarm away from excessive dirt, dusty or greasy areas such as kitchens and garages. Ensure adequate ventilation when using household cleaners and chemicals as these can affect the sensor.

**YOU SHOULD KNOW ABOUT CARBON MONOXIDE**

Carbon monoxide, also known as "CO" by the chemical form, is considered to be a highly dangerous poisonous gas, because it is colorless, odorless and tasteless and very toxic. In general, biochemistry phenomena have shown that the presence of CO gas inhibits the blood’s capacity to transport oxygen throughout the body, which can eventually lead to brain damage. In any enclosed space (home, building, enclosed vehicle, etc.), CO gas can build up to a lethal level in a very short time.

Carbon monoxide is produced by the incomplete combustion of fuels such as natural gas, heating oil, kerosene, coal, gasoline, or wood. The incomplete combustion of fuel can occur in any device which depends on burning for energy or heat such as furnaces, water heaters, stoves, grills, and in any gasoline-powered vehicle or engine (e.g. generators, lawn mowers). Tobacco smoke also adds CO to the air you breathe.

When properly installed and maintained, your natural gas furnace and hot water heater do not pollute your air space with CO. Natural gas is known as a “clean burning” fuel because under correct installation or operation of equipment, chimney or vents

**Types of CO alarm:**

- Mechanical (The alarm sounds due to a change in temperature or pressure)
- Electronic (The alarm sound due to a change in electrical signals)

**Alarm problems:**

- Poor sensitivity
- False alarms
- Malfunctioning

**Safety tips:**

- Always keep carbon monoxide detectors in the home to ensure maximum protection.
- Inspect and clean the CO alarm at least once a year.
- Keep the CO alarm away from excessive dirt, dusty or greasy areas such as kitchens and garages.
- Ensure adequate ventilation when using household cleaners and chemicals.

**More information:**

- Carbon monoxide detectors are available in different models and sizes. Choose the one that best suits your needs.
- Install the CO alarm on the ceiling or near the door to alert you immediately.
- Check the battery levels regularly to ensure maximum protection.
- Consult the manufacturer’s instructions for specific maintenance and operation details.

**CAUTION:** When installing a CO alarm, make sure to follow all the manufacturer’s instructions to ensure maximum protection.

**Important:** Before installing a CO alarm, make sure to consult the manufacturer’s instructions for specific installation and maintenance details.

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Possible Symptoms of Carbon Monoxide Poisoning

Carbon monoxide is colorless, odorless, tasteless, and very toxic. When inhaled, it produces an effect known as chemical asphyxiation. Injury is due to the combining of CO with the available hemoglobin in the blood, lowering the oxygen-carrying capacity of the blood. In the presence of CO gas, the body is quickly affected by oxygen starvation.

The following symptoms are related to CO poisoning and should be discussed with all members of the household:

1. Mild exposure: slight headache, nausea, vomiting, fatigue (often described as “flu-like” symptoms).
2. Moderate exposure: severe headache, dizziness, drowsiness, confusion, fast heart rate.
4. 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. Young children and household pets are typically the most affected.

Actions to Take when CO Alarms Sounding

Warnings!! Activation of your CO alarm indicates the presence of carbon monoxide (CO) which can kill you. If alarm sounds:

1. OperateTesttum button
2. Call your emergency services at _________ or fire department at 911.
3. Immediately move to fresh air—outdoors or by an open door or window. Do a head count to check that all persons 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. After following steps 1 – 3, if your alarm reactivates within 24 hours, repeat steps 1 – 3 and call a qualified appliance technician at _________. If problems are identified during this inspection the equipment survival immediately. Note any combustion equipment not inspected by the technician and contact the manufacturers’ instructions, or contact the manufacturers directly, for more information about CO safety and this equipment. Make sure that motor vehicles are not, and have not been, operating in an attached garage or adjacent to the residence.

The RE613 Carbon Monoxide Alarm has been designed to provide an alarm based on various exposure times at different levels of carbon monoxide concentrations as per UL 2034 standard.

- At 70ppm, the unit must alarm within 4-15 minutes
- At 100ppm, the unit must alarm within 10-30 minutes
- At 400ppm, the unit must alarm within 4-15 minutes

Actions to take after the problem is corrected

Once the source of CO gas in the premises has been identified, the alarm of the CO alarm unit shall be off. After waiting for 10 minutes, push the Test button to test the CO alarm unit so that you can make sure that it is working properly again.

Warning and Limitation

Warning!! This product is intended for use in ordinary indoor locations of family living units. It is not designed to measure compliance with Occupational Safety and Health Administration (OSHA) commercial or industrial standards.

This CO alarm is not suitable to install in a hazardous location, as defined in the National Electrical Code.

This CO alarm is not suitable to be installed at any location where the alarm unit will not work if the battery power is disconnected or cut off for any reason. Additionally, carbon monoxide must reach the alarm unit for the proper performance of the alarm function.

This alarm must be installed in the proper manner. The alarm unit will not work if the battery power is disconnected or cut off for any reason. Additionally, carbon monoxide must reach the alarm unit for the proper performance of CO gas detection.

This carbon monoxide alarming device is not designed to detect carbon monoxide gas from any source of combustion. It is NOT designed to detect smoke, fire, or any other gases.

Radio signals transmitted by this CO alarm may be blocked or reflected by metal objects. Adjacent devices or systems using radio signals may interfere with the operation of this alarm. Test the system weekly to ensure signals are transmitted and received properly.