

LOW LEVEL & FAST CARBON MONOXIDE ALARM, MODEL: J001

FORENSICS DETECTORS™



LOW LEVEL & FAST CARBON MONOXIDE ALARM

Model: J0001
MANUAL VERSION 3.0



INTRODUCTION

The FORENSICS LOW LEVEL & FAST CO ALARM – J001 is designed to provide added protection for older adults, elderly, pregnant women, young children, and persons with medical conditions who may be more vulnerable to the adverse health effects of exposure to low CO levels. This CO detector triggers an audible alarm when CO detected is 25ppm after 60 seconds. Such low-level CO alarming is closer to Agency (see below table) CO gas exposure limits that those embedded within UL2034 (70ppm from 60-240minutes).

Agency	CO Gas Exposure Limits
WHO	9ppm average over 8hours
EPA	9ppm average over 8 hours
ASHRAE	9ppm average over 8 hours
NIOSH	35ppm average over 10 hours 200ppm ceiling value
OSHA	50ppm average over 8 hours
ACGIH	25ppm average over 8 hours

** WARNINGS **

- DOES NOT COMPLY WITH UL2034.
- CO IS A TOXIC GAS and CAN KILL YOU.

- DO NOT TAMPER and DO NOT OPEN THE UNIT.
- NOT TO BE USED IN CORROSIVE GAS AREAS.
- DO NOT BLOCK THE GRILLED VENTS / SLOTS.
- THE UNIT CANNOT BE EXCESSIVE SHOCK.
- THIS IS NOT A SMOKE OR FIRE DETECTOR.
- DO NOT PAINT ON OR NEAR THE MONITOR.
- DO NOT SPRAY AIR REFRESHENER, CLEANING SUPPLIES, OR INSECT KILLER NEAR THE UNIT.
- UNIT DESIGNED ONLY FOR INDOOR USE
- DO NOT TEST THE UNIT TO EXHAUST GAS

1. FEATURES

1. Low-level display, display >10ppm.
2. Fast alarming at 25ppm at 60 seconds.
3. 5-year sensor life
4. Memory alarm function with hour stamp.
5. Low battery warning.
6. Product stable on table, no need to mount.
7. Amplifying circuit and sensor fault signal warning
8. End of alarm life warning
9. 1-year limited warranty

2. SPECIFICATIONS

Power Source: 3PCS LR6 SIZE AA 1.5V battery
 Sensor Type: Electrochemical, 5 year life
 Target Gas: Carbon Monoxide
 Alarm activation: 25 ppm @ 60 seconds
 CO Display Range: 0-9ppm ...displays "0"
 10-999ppm ...displays level
 Accuracy: +/- 30%
 Operation Temp: 40 to 100F
 Ambient Humidity: 15% to 90%
 Buzzer Level: 85dB @ 1m
 Product Weight: 14Dg
 Product Life: 5 years
 Product Size: 255x44x44mm

3. CARBON MONOXIDE GAS

Carbon monoxide (CO) is a colorless, odorless, and tasteless poison gas that can be fatal when inhaled. CO inhibits the blood's capacity to carry oxygen. Inside your home, appliances used for heating and cooking are the most likely sources of CO. Vehicles running in attached garages can also produce dangerous levels of CO. CO can be produced when burning any fossil fuel: gasoline, propane, natural gas, oil and wood. CO can be produced by any fuel-burning appliance that is malfunctioning, improperly installed, or not ventilated correctly. Possible CO sources include furnaces, gas ranges/stoves, gas clothes dryers, water heaters, portable fuel burning space heaters, fireplaces, wood-burning stoves and swimming pool heaters. Blocked chimneys or flues, back drafting and changes in air pressure, corroded or disconnected vent pipes, or a loose or cracked furnace exchanger can also release CO into your home or garage. Vehicles and other combustion engines running in an attached garage and using a charcoal/ gas grill or hibachi in an enclosed area are all possible sources of CO.

4. SYMPTOMS OF CO POISONING

Initial carbon monoxide poisoning symptoms are similar to the flu with no fever and can include dizziness, severe headaches, nausea, vomiting and disorientation. Everyone is susceptible but experts agree that unborn babies, pregnant women,

senior citizens and people with heart or respiratory problems are especially vulnerable. If symptoms of carbon monoxide poisoning are experienced seek medical attention immediately. CO poisoning can be determined by a carboxyhemoglobin blood test. 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, confusion, fast heart rate.
- Extreme Exposure: Unconsciousness, convulsions, cardio respiratory failure and death.

The levels of exposure relate to healthy adults. Levels differ for those at higher 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 feeling well, they become so disoriented they are unable to save themselves by either exiting the building/home, or calling for assistance. Also, young children and household pets may be the first effected. Familiarization with the effects of each level is important. Please be attentive.

5. RECOMMENDED LOCATIONS

CO alarms should be mounted in or near bedrooms and living areas. It is recommended that you install the CO alarm on each level of your home. 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 it near bedrooms, not in the basement or furnace room. When wall mounting, keep it out of the reach of children, pets or accidental bumps. Under no circumstances should children be allowed to handle the CO alarm. **Placing the alarm at eye level is recommended as it allows for optimum daily monitoring of the digital display.**

6. LOCATIONS TO AVOID

- Do not install in areas where the temperature is colder than 40°F (4.4°C) or hotter than 100°F (37.8°C) such as crawl spaces, attics, porches and garages.
- Do not install within 5 ft. of heating or cooking appliances.
- Do not install near vents, flues, chimneys or any forced/unforced air ventilation openings.
- Do not install near ceiling fans, doors, windows or areas directly exposed to the weather so external air, water or rain reaches the alarm.
- Do not install in dead air spaces, such as peaks of vaulted ceilings or gabled roofs, where CO may not reach the sensor in time to provide early warning.
- Do not install on a switched or dimmer-controlled outlet.
- Do not install this unit near deep-cell large batteries. Large batteries have gas emissions that can cause the alarm to perform at less than optimum performance.
- Do not obstruct the vents located on the alarm. Do not place the alarm where drapes, furniture or other objects block the flow of air to the vents.

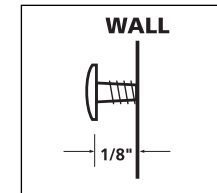
7. INSTALLATION

Having established the mounting location, ensure that there is no electrical wiring or pipe work in the area adjacent to the mounting surface.

- Mark the two mount hole locations.

- Drill holes in the positions marked.
- Screw tight the screws into the drilled holes, and keep the steel screws out 1/8" (see next figure).
- Insert 3 x LR6 SIZE AA 1.5V batteries firmly into battery compartment on the rear of the detector.
- If batteries are already inserted, remove the plastic tab from the battery compartment to enable battery connection.

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For tabletop placement, simply place the CO alarm on the table, so that the users can see the alarm clearly.



Ensure screws are 1/8" screw distance from the wall.

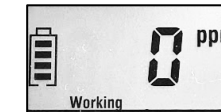
8. OPERATION

8.1 Installation of Batteries

This alarm is powered by 3 x LR6 SIZE AA 1.5V battery, open the battery compartment on the rear of the detector and install the batteries (see fig1). A screw may be attached. Unscrew the lid to gain access.

8.2 NORMAL Operation

When no CO is present, the green LED flashes once EVERY 50 SECONDS, LCD displays "0 PPM" and "Working" symbol is shown to indicate normal operation.



8.3 TESTING your CO alarm

Press the TEST button once. An "artificial" analog output of high CO concentration will be detected in seconds by the controller. This display level will be different every time. The unit will alarm together with a red LED flashing. The display will look something similar to the below picture. **Test your CO alarm weekly.**



8.4 CO ALARM SEQUENCES

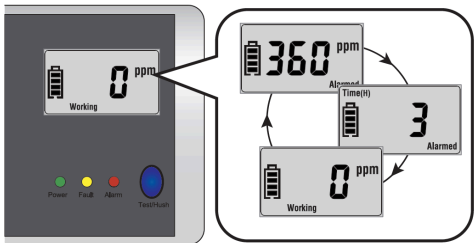
When the unit detects levels of CO above 25ppm with a time of 60 seconds, it will emit an alarm signal along with flashing of red LED (see below). When the CO concentration drops below 25ppm the alarm will stop.

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CO Level	Alarm
0 to 24ppm	No Alarm
> 25ppm	After 60 seconds, 3 beeps every 2 seconds + RED LED flash

8.4 Memory Function

After an alarm event, the CO alarm stores in memory the alarm event. This is a useful feature just in case an alarm occurred when nobody was at home. After an alarm event, the CO alarm returns to normal operation but in this case, the LCD alternates between displaying Current State and History Max. When the display switches and shows the History Max, it indicates "Alarmed" to ensure no confusion occurs between the Current State level which is shown when displaying "Working". By pressing the Test Button, the memory will be cleared and will revert to NORMAL operation.



8.5 LOW BATTERY Signal

When the unit detects the battery voltage is low and needs replacing, the yellow LED will flash every 40 seconds along with one BEEP, LCD will show LOW VOLTAGE symbol (see below). Please replace the battery as soon as possible.



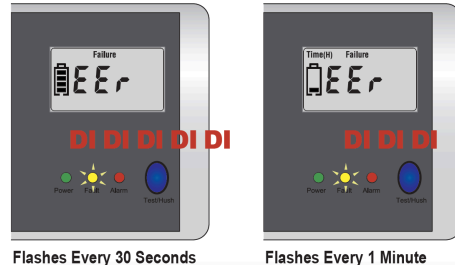
The normal standby time of battery is 3 years minimum. If there is problem with the battery or low battery signal warning keeps for over 30 days, please replace the battery timely. It is recommended to use the same type of battery when changing the battery (3 xLR6 SIZE AA 1.5V battery).

8.6 Fault Signal Warning

The unit will self-test the amplifying circuit and sensor at a rate of every 4 minutes. If a problem is detected the yellow LED will flash 5 times with beeping 5 times per 30 Seconds. The display will show EER as the next figure (LEFT). If this occurs we recommend replacing the unit.

8.7 End of Alarm Life Warning

When product is at the end of life, the LCD screen displays ERR and yellow indicator flashed 3 times with beeping 3 times per 1 minute, as shown in the below figure (Right). If this occurs we recommend replacing the unit.



9. ALARM ACTION PLAN

If a CO alarm occurs, take the following action:

- Immediately move to fresh air outdoor or open all doors or windows to ventilate the area and allow the carbon monoxide to disperse.
- Where possible, turn off fuel burning appliance. Evacuate the building.
- Do not re-enter the premises nor move away from the open door or window until emergency services responders have arrived, the premises have been aired out, and your alarm remains in its normal condition.
- Seek medical help immediately for anyone suffering from the symptoms of headache, drowsiness, nausea, etc.
- Do not use the appliances again until they have been checked by a qualified technician and the fault located and cleared.

10. MAINTENANCE OF UNIT

- Test the alarm weekly by pressing the TEST button.
- Check grilled vent slots to ensure no blockage.
- Clean your CO alarm regularly to prevent dust build up.
- This can be done using a vacuum cleaner with the brush attachment once per month. Clean gently around the front grilled vent slots.
- Never use cleaning solutions on your alarm. Simply wipe with a damp cloth.
- Do not paint the alarm.

- DO NOT TEST THE UNIT WITH EXHAUST GAS. THE ACIDIC EXHAUST GAS WILL DAMAGE THE SENSOR.
- Do not tamper with any of component as this may lead to a product fault and cause Risk of death.

WARRANTY DISCLAIMERS:

This product is covered by a one year limited warranty. This warranty does not cover damage resulting from accident, misuse, disassembly, abuse or lack of reasonable care of the product, or applications not in accordance with the user manual. It does not cover events and conditions outside of our control, such as Acts of God (fire, severe weather etc). It does not apply to retail stores, service centers or any distributors or agents. We will not recognize any changes to this warranty by third parties. We shall not be liable for any incidental or consequential damages caused by the breach of any express or implied warranty. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration for 1 year.

THIS PRODUCT CANNOT BE REPAIRED IF THE UNIT IS TAMPERED WITH IT WILL INVALIDATE THE GUARANTEE. IF THE UNIT IS FAULTY PLEASE RETURN IT TO YOUR ORIGINAL SUPPLIER WITH YOUR PROOF OF PURCHASE.

Support & Questions

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Product Designed in California, USA
Product Made in China