

5800CO

CARBON MONOXIDE DETECTOR WITH BUILT-IN WIRELESS TRANSMITTER



The 5800CO is a 3V battery powered wireless carbon monoxide (CO) detector intended for use with alarm systems that support 5800 Series wireless devices. It provides early warning when its electrochemical sensing technology measures carbon monoxide levels in the air.

The 5800CO is specifically designed for system operation and is fully listed to UL 2075 as a system supervised detector.* It contains a piezoelectric horn which generates the ANSI S3.41 temporal 4 pattern in an alarm condition.

The detector consists of an electrochemical carbon monoxide sensor assembly coupled with a wireless transmitter. The transmitter can send alarm, trouble, end-of-life, tamper and low battery condition messages to the alarm panel.

Since there are no holes to drill or wires to run, you can preserve the beauty of the home or building while protecting its occupants from harmful carbon monoxide gas. The 5800CO is an ideal carbon monoxide detector for difficult to wire locations, applications where room aesthetics are critical or where hazardous materials exist.

What is Carbon Monoxide and How Can it Harm Consumers?

Carbon monoxide (CO) is an odorless, colorless, tasteless and highly toxic gas that is produced when fuels such as wood, gasoline, charcoal and oil are burned with insufficient air. The majority of residential and commercial fatalities caused from these fuels come from heating systems, engine powered tools and charcoal grills. Carbon monoxide is harmful when inhaled because it displaces oxygen in the blood and deprives the heart, brain and other vital organs of oxygen. Large amounts of CO can overcome a person in minutes without warning—causing them to lose consciousness and suffocate.

The 5800CO is designed to warn the end-user well before the CO reaches a fatal level. The detector's CO sensitivity is evaluated to UL 2034.

CO Levels and Time to Alarm

CO Concentration	Min. Time to Alarm	Max. Time to Alarm
30 ppm +/- 5 ppm	30 days	Indefinite**
70 ppm +/- 5 ppm	60 minutes	240 minutes
150 ppm +/- 5 ppm	10 minutes	50 minutes
400 ppm +/- 5 ppm	4 minutes	15 minutes

*For a complete list of products that support system operation of the 5800CO to UL standard 2075, please contact your Customer Service Representative at (843) 658-3434.

**Life of Product

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KEY FEATURES

Electrochemical Sensing Technology - Electrochemical detectors are the newest, most refined CO detectors available and provide the most accurate measurement of CO concentration obtainable. They can take readings from low levels that may be hazardous over long periods of time to high concentrations that present an immediate danger.

Local Sounder - A built-in piezoelectric horn generates the ANSI S3.41 temporal 4 pattern in an alarm condition. The local sounder will also alert the end-user of other conditions such as low battery, detector trouble and end-of-life.

LED Status Indicators - Dual LEDs provide local visual indication of the detector's status—including normal operation, alarm, low battery, trouble and end-of-life (see figure 1).

End of Life Timer - When the detector has reached the end of its life, the detector will send a trouble signal to the panel. This indicates that the CO sensor inside the detector has passed the end of its life and the detector needs to be replaced. The detector's lifespan is approximately six years from the date of manufacture.

Full Supervision - The 5800CO is fully supervised to monitor for low battery, case tamper and trouble conditions.

Test/Hush Button - This dual purpose button allows the end-user to perform periodic testing of the detector. In the event of a CO alarm, this button will silence the local sounder alarm for a five minute period. Note: the Hush feature will not operate at levels above 350 ppm (parts per million) carbon monoxide (see figure 1).

Versatile Mounting - Whether you choose to affix the detector to the ceiling or a wall, mounting is made simple with the enclosed hardware. The mounting base has large mounting ports, which accommodate drywall anchors for easy surface mounting (see figure 2).

Tamper Protection and Tamper Resistant Element - The detector has a built-in tamper switch that can communicate back to the control panel in the event it is removed from the base. For an added level of security, the detector also includes a tamper resistant element that prevents removal from the base without the use of a tool (see figure 2).

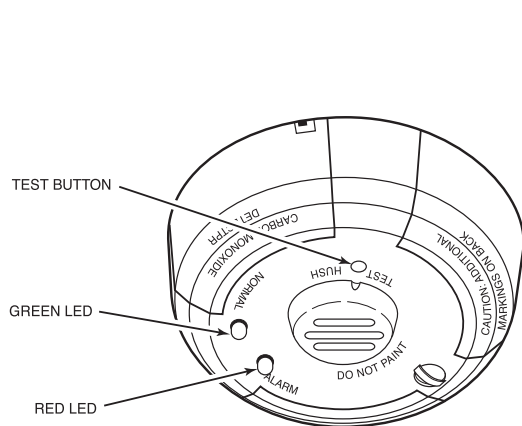


Figure 1

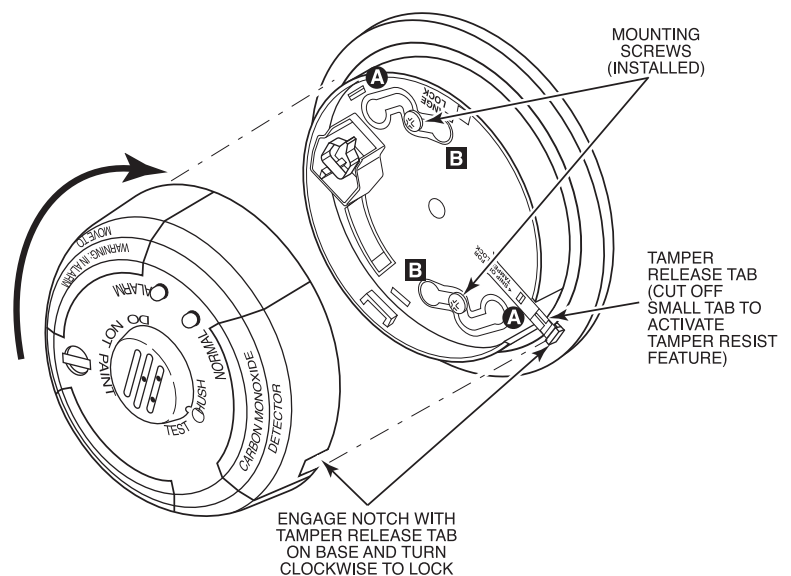


Figure 2

5800CO

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MOUNTING RECOMMENDATIONS

CO is slightly lighter than air and when heated by a fuel-burning source, the lighter weight and warm temperature of the CO causes it to quickly rise to the ceiling and mix freely with the air. Check with the local Authority Having Jurisdiction (AHJ) for CO detector requirements in your area. Some recommendations for installing the 5800CO are as follows:

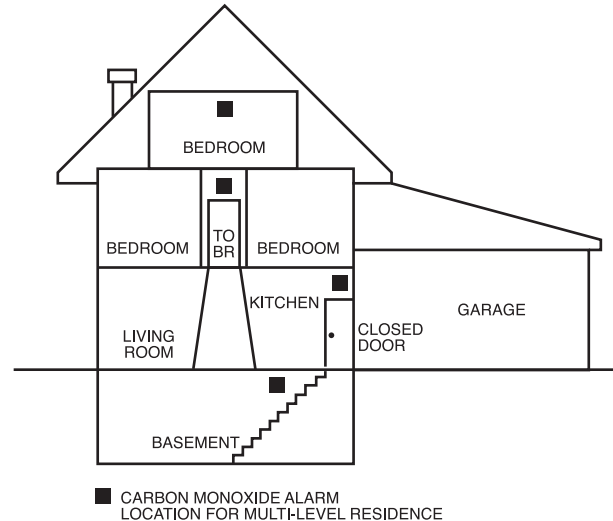
- On every floor of the facility
- Inside any areas that contain a fuel-burning appliance
- In the vicinity of flame-fueled appliances, but no closer than 10 feet

- **For wall mount**

- The detector should be at least as high as a light switch and at least six inches from the ceiling

- **For ceiling mount**

- The detector should be at least 12 inches from any wall



SPECIFICATIONS

- **Power Source:** One 3V CR123A lithium battery (included)
- **Audible Signal (temporal 4 tone):** 85 dB in alarm (at 10 ft.)
- **Height:** 2.3" (58mm)
- **Diameter:** 5.3" (135mm) with mounting base
- **Weight:** 7 oz. (241 g) without battery
- **Operating Ambient Temperature Range:** 32° F to 100° F (0° C to 37.8° C)
- **Operating Humidity Range:** 15% to 95% relative humidity, non-condensing
- **Agency Listings:**
 - Listed to UL standard 2075, *CO sensitivity is evaluated to UL 2034
 - 5800COA ULC Listed - tested to the CAN/CSA 6.19.01 standard

ORDERING - Call (843) 658-3434 and ask your Customer Service Representative

5800CO Wireless Carbon Monoxide Detector with Built-in Wireless Transmitter

5800COA Wireless Carbon Monoxide Detector with Built-in Wireless Transmitter with ULC listing

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