



## CO1224 Carbon Monoxide Detector

*System Sensor's CO1224 provides early warning when its electrochemical sensing technology accurately measures carbon monoxide levels in the air.*



**Carbon monoxide** 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, power tools and charcoal grills.

If carbon monoxide is detected, the CO1224 will alert residents by sounding and flashing a temp-4 signal alarm. Because the CO1224 is a 12/24-volt detector with monitoring capabilities, protection is guaranteed 24/7 by a central station, regardless of whether residents are away from home, sleeping or already suffering from the effects of CO.

The CO1224 is specifically designed for system operation. This means that the detector is fully listed to UL 2075, offering a trouble relay as well as SEMS terminals for wiring supervision. If a problem arises with the detector's sensor or if the detector has reached its maximum lifespan, the trouble relay will alert the control panel, which will notify the central station. The CO1224 also offers the lowest current draw in the industry. And, when the time comes to mount the CO1224, versatile mounting options are available for the wall, ceiling or single-gang electrical box.

### Features

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- Full compliance with UL 2075
- A trouble relay
- Wiring supervision with SEMS terminals
- A six-year end-of-life timer
- 12/24 VDC
- A current draw of 20mA in standby and 40mA in alarm
- Versatile mounting for wall and ceiling
- Electrochemical sensing technology

### Agency Listings

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## Specifications

### Architectural/Engineering Specifications

Carbon monoxide detector shall be a System Sensor model number CO1224, listed to Underwriters Laboratories UL 2075 for Gas and Vapor Detectors and Sensors. The detector shall be equipped with a sounder and a trouble relay. The detector's base shall be able to mount to a single-gang electrical box or direct (surface) mount to the wall or ceiling. Wiring connections shall be made by means of SEMS screws. The detector shall provide dual color LED indication, which blinks to indicate normal standby, alarm, or end-of-life. When the sensor supervision is in a trouble condition, the detector shall send a trouble signal to the panel. When the detector gives a trouble or end-of-life signal, the detector shall be replaced.

### Electrical Specifications

Operating Voltage	12/24 VDC
Audible Signal	85 dB in alarm
Standby Current	20 mA
Max. Alarm Current	40 mA (75 mA test)
Alarm Contact Ratings	0.5 A @ 30 VDC
Trouble Contact Ratings	0.5 A @ 30 VDC

### Physical Specifications

Size	Length: 5.1", Width: 3.3", Height: 1.3"
Approximate Weight	7 oz
Operating Temperature Range	0° – 40° C (32° – 104° F)
Operating Humidity Range	22 – 90% RH
Input Terminals	14 – 22 AWG
Mounting	Single-gang back box; surface mount to wall or ceiling

## Operation Modes

Operation Mode	Green LED	Red LED	Sounder
Normal (standby)	Blink 1 per minute	—	—
Alarm	—	Blink in temp 4 pattern	Sound in temp 4 pattern

- Hush Feature: Pushing the Test/Hush button will silence the sounder for 5 minutes.
- Trouble Feature: When the sensor supervision is in a trouble condition, the detector will send a trouble signal to the panel.
- End-of-life Timer: When the sensor inside the detector has reached the end of its life, the sounder will sound once every minute. This will indicate that it is time to replace the detector. An electrochemical carbon monoxide detector lifespan is approximately six years.

## Ordering Information

Part No.	Description
CO1224	12/24 volt, 4-wire system-monitored carbon monoxide detector



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