



CO1224A Carbon Monoxide Alarm

System Sensor's CO1224A 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 CO1224A will alert residents by sounding and flashing a temp-4 signal alarm. Additional protection is provided with built-in alarm and trouble contacts which can be used for monitoring. This can provide protection regardless of whether residents are away from home, sleeping or already suffering from the effects of CO. The alarm contact has a 10 second delay so the unit can be tested with the test pushbutton without activating the alarm contact.

The CO1224A trouble relay can send a sensor failure or end-of-life signal to the control panel and the central station. SEMS-type terminal Philips-head screws provide a quicker and more positive wiring connection and code required wiring supervision. Also, the CO1224A offers a low current draw, allowing more detectors to be connected to the panel without having to purchase a more expensive panel or an extra power supply.

Because the CO1224A is a 12/24 VDC detector, it will operate on most industry security or fire alarm control panels.

Features

- Full compliance with CSA 6.19-01
- Alarm/Trouble contacts
- Wiring supervision with SEMS terminals
- A six-year end-of-life indication
- 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



6.19-01

Specifications

Architectural/Engineering Specifications

Carbon monoxide alarm shall be a System Sensor model number CO1224A, listed to ULC in compliance with CSA 6.19-01. The detector shall be equipped with an alarm/trouble sounder, alarm/trouble relay, and test/silence pushbutton. The alarm relay shall have a 10 second delay. 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 LED indicators, which blink to indicate normal standby, alarm, or trouble/end-of-life conditions. When the sensor supervision is in a trouble condition, the detector shall sound an audible trouble signal and activate the trouble relay. 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 MIN. |
| Standby Current | 20 mA |
| 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 |
| Trouble | — | Blink once per minute | Sound once per minute |

Hush Feature: Pushing the Test/Hush button will silence the sounder for 5 minutes.

Trouble Feature: When the detector is in a trouble condition, it will sound a trouble signal and activate the trouble relay.

End-of-life Timer: After the sensor inside the detector has reached the end of its useful life, a trouble signal will sound and the trouble contact will activate. This will indicate that it is time to replace the detector. An electrochemical carbon monoxide detector lifespan is approximately six years, and the detector must be replaced by the date marked on the inside of the product.

Ordering Information

| Part No. | Description |
|----------|--|
| CO1224A | 12/24 volt, 4-wire carbon monoxide alarm |

