Carbon Monoxide
(CO) Detection
PRODUCTS

SYSTEM SENSOR®



Accessories
Conventional Detectors

AV BEAM CO HVAC SPOT MODULES RELAYS



Complete CO Detection

The system-connected CO1224T and CO1224TR CO detectors with RealTest® provide early warning by using reliable electrochemical sensing technology to measure CO levels in the air. If a dangerous amount of CO is detected, the CO1224T/CO1224TR will alert residents by sounding a Temporal 4 alarm tone and flashing its red LED. Protection is guaranteed 24/7 by an alarm transmission to a central station, regardless of whether residents are away from home, sleeping, or already suffering from the effects of CO.



CO1224T
Carbon Monoxide Detector

Benefits of Monitored Detection

CO detectors monitored by a central station provide peace of mind by including an extra level of protection when:

- The residence is empty
- Residents are sleeping
- Pets, children, and elderly are alone
- Residents are already suffering from symptoms of CO exposure (drowsiness, unconsciousness, etc.)
- A maintenance problem arises with the detector

If CO concentration reaches dangerous levels and triggers an alarm, the central station has the ability to contact the occupant and/or first responders. The central station will also alert the end user if the detector:

- Has been tampered with
- Is experiencing mechanical trouble
- Is in sensor end-of-life due to the limited life span of CO detection technologies

42%

Of homes have a working CO alarm.

Features and Benefits



RealTest

The CO1224T and CO1224TR detectors from System Sensor offer RealTest: a true functional CO test that's the first of its kind. With RealTest, a simple short spray of canned CO is all it takes. Now you can leave your job knowing the detector is doing its job.

UL Listed

The CO1224T/CO1224TR is fully compliant with UL 2075.

Electrochemical Sensing

Electrochemical detectors are the newest, most reliable CO detectors available. They take the most accurate readings of CO, from low levels of CO that may be hazardous over long periods of time to high concentrations that present an immediate danger. They are also less prone to false alarms than other types of CO sensing technologies.

End-of-Life Notification

The CO1224T and CO1224TR are equipped with a ten-year end-of-life notification system that alerts the central station at the end of each detector's functional life span. This enables service providers to proactively make service calls without the homeowner worrying about checking the detector.

62,000

People Poisoned by CO Annually

SEMS Terminals

The CO1224T/CO1224TR features SEMS terminals that provide electrical supervision and fast, easy wiring.

Versatile Mounting Options

The CO1224T/CO1224TR can be mounted to a single-gang electrical box or surface mounted to the wall or ceiling with ample room for wire entry.

Low Current Draw

The CO1224T/CO1224TR has a current draw of 20 mA in standby and 40 mA in alarm. This means that more CO detectors can be connected to the panel without purchasing a more expensive panel or an extra auxiliary power supply.

24-Hour Protection

Protect your customers with 24/7 central station monitoring; you can protect your customers from a poison they cannot see, smell, or taste.

Save Lives

You can save lives! According to the Journal of the American Medical Association (JAMA), carbon monoxide is the number one cause of unintentional poisoning deaths in the United States.

Installation Guidelines

The CO1224T/CO1224TR can be mounted to a single-gang box or surface mounted to the wall or ceiling. In a wall location, the detector should be at least as high as a light switch and at least six inches from the ceiling. In a ceiling location, the detector should be at least 12 inches from any wall.

Where to Install CO Detectors

- Within 10 feet of each sleeping area
- Inside each sleeping area if occupied by the hearing impaired
- Near kitchens with a gas burning stove
- On each floor of the house
- Away from vents and the reach of children and pets
- In the vicinity of flame-fueled appliances, but no closer than 10 feet

CO Detector Placement



Carbon Monoxide Detector location for multi-level residence

CO

RealTest®

The System Sensor CO1224T and CO1224TR CO Detectors provide RealTest — the first functional CO test fully compliant with NFPA 720: 2009. With a simple short spray, anyone can test the CO sensing cell to verify it is working.

1.



Push and hold the Test/Hush button for two seconds to enter RealTest mode. The green LED will flash once every second to indicate RealTest mode has started.

2.



Spray canned CO agent into the detector.

3.



Verify CO sensing at the control panel. The detector will automatically exit RealTest alarm mode after about 20-60 seconds.



CO1224T & CO1224TR

Carbon Monoxide Detectors

The CO1224T and CO1224TR are designed for system operation. These detectors are fully listed to UL 2075 and offer a code-required trouble relay to send a sensor failure or end-of-life signal to the control panel and the central station. The CO1224T and CO1224TR also use SEMS-type terminal Philips head screws for quicker and more positive wiring connections and code-required wiring supervision. With a low current draw, these detectors enable more devices to be connected to the panel, limiting the need to purchase extra power supplies or more expensive panels. As 12/24 VDC detectors, the CO1224T and CO1224TR will operate on most security and fire alarm control panels.

Carbon Monoxide Detectors

CO1224T	12/24 volt, 6-wire system-monitored carbon monoxide detector with RealTest Technology, Square
CO122TR	12/24 volt, 6-wire system-monitored round carbon monoxide detector with RealTest Technology, Round

Features

- A ten-year end-of-life timer
- RealTest® enables a functional test using canned CO
- Full compliance with UL 2075
- A code-required trouble relay
- Wiring supervision with SEMS terminals
- 12/24 VDC
- A low current draw of 20 mA in standby and 40 mA in alarm
- Versatile mounting for wall or ceiling
- Accurate and reliable electrochemical sensing technology
- Optional CO Detector Replacement Plate, CO-PLATE, to upgrade previously installed competitor detectors to the CO1224T

Simplify Replacements with **CO-PLATE**

To upgrade competitive detectors to the CO1224T, installers can easily connect the CO1224T to existing wiring. In cases where the footprint of the old detector must be covered, the CO-PLATE perfectly covers the outline of the old and bulky competitive detector. The CO1224T then mounts to the CO-PLATE for a clean, low-profile finish ideal for commercial and residential applications.

CO-PLATE	CO detector replacement plate



CO

i4 Series

Combination CO/Smoke Detectors



The i4 Series Combination CO/Smoke Detector includes a variety of features that simplify installation and maintenance while increasing the level of protection for your customers.

- Single detector for CO and smoke detection that uses less wiring and fewer junction boxes
- Requires the use of the i4 Interface and Synchronization Module
- Interface module connects up to 12 detectors to panel and is compatible with a wide range of control panels
- Sends distinct smoke and CO signals to the panel
- Sounds Temp 3 for smoke and Temp 4 for CO
- Built-in 85dB sounder
- LEDs display operational, CO, and smoke status
- External IR LED provides extended range smoke sensitivity testing
- Versatile mounting allows for wall or ceiling placement
- Easily replaceable electrochemical CO cell with 10 year end-of-life timer that signals the panel and chirps to alert the homeowner
- RealTest® enables functional gas testing using canned CO
- Drift compensation and smoothing algorithms provide false alarm immunity
- Compatible with SENS-RDR smoke sensitivity tester
- For product specifications, visit www.systemsensor.com/i4

i4 Series CO/Smoke Detectors

COSMO-2W	12/24 volt, 2-wire, system-connected, combination carbon monoxide/smoke detector with RealTest technology
COSMO-4W	12/24 volt, 4-wire, system-connected, combination carbon monoxide/smoke detector with RealTest technology



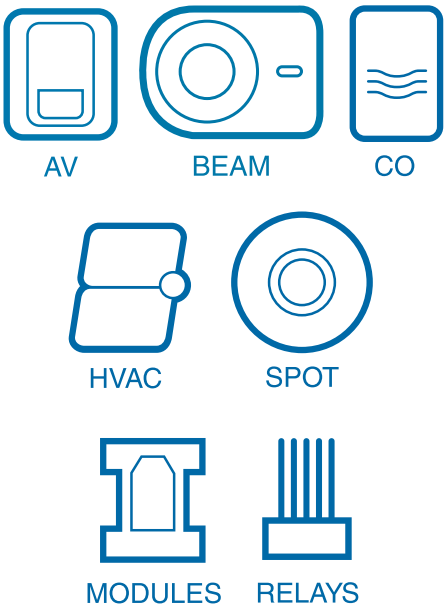
MODULES

i4 Series Interface Modules

The required i4 Interface Module enables the system to send distinct CO and smoke signals over only two or four wires, greatly reducing installation time and cost.

i4 Series Interface Modules

COSMOD2W	2-wire interface and reversing relay module
COSMOD4W	4-wire interface and reversing relay module



Founded in 1984, System Sensor is a global manufacturer of fire and life safety devices, specializing in smoke detection, carbon monoxide detection, and notification technology. System Sensor develops products for real-world applications worldwide. With sales, service, and manufacturing facilities throughout the Americas, Europe, and Asia, System Sensor places a premium on research and development to provide the most reliable, innovative, and comprehensive line of products in the industry.

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