Frequently Asked Questions

CO1224T and CO1224TR
Carbon Monoxide Detectors with RealTest®

What is carbon monoxide?

Carbon monoxide (CO) is an odorless, colorless, tasteless, and highly toxic gas. It is produced when flame-fueled devices, such as heating systems, power tools, grills, and ovens, malfunction or are not properly vented.

What happens if CO is inhaled?

The CO is absorbed into the bloodstream, replacing the oxygen traveling to vital organs throughout the body. Depending on the concentration of CO in the air and the length of exposure, effects can include a mild headache, drowsiness, nausea, dizziness, unconsciousness, and suffocation. CO poisoning can occur with small amounts accumulating in the bloodstream over time or large amounts being inhaled quickly.

How do CO detectors protect residents from CO poisoning?

CO detectors protect residents by monitoring the air and measuring the amount of CO present over a time interval. When dangerous levels are calculated, CO detectors flash and sound a temp 4 alarm.
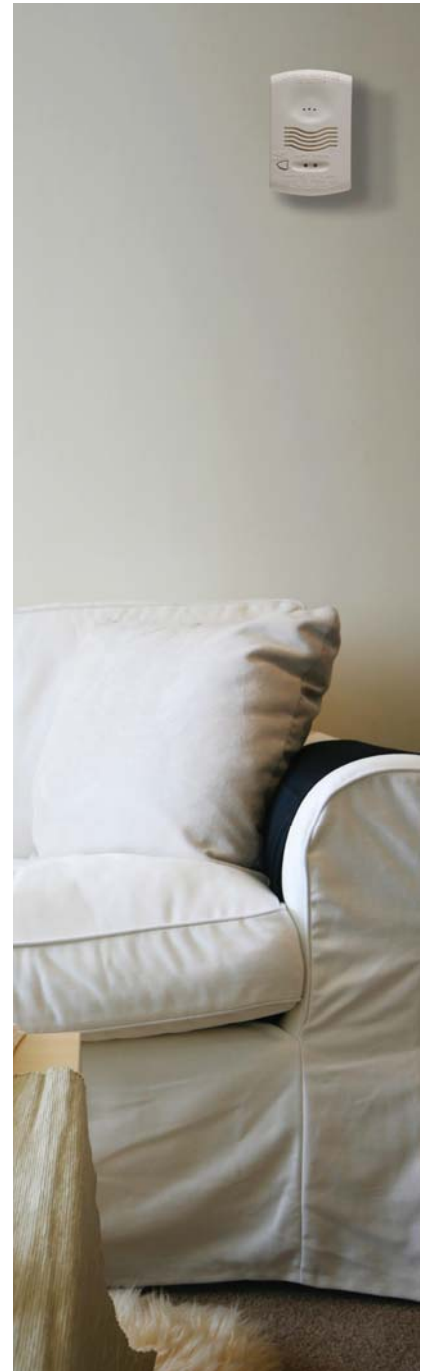
What are the benefits of a monitored CO detector?

CO detectors can be connected to a control panel that communicattes alarm and supervisory conditions to a central monitoring station. Supervised detectors provide peace-of-mind by adding an extra level of protection for situations in which residents cannot respond to an unsupervised alarm, such as when residents are sleeping, when the home is empty, or when residents are already suffering from the effects of CO. If the CO concentration hits a dangerous level, the homeowner will not only be notified by the detector, but also by the central monitoring station. If the resident is unreachable, the central monitoring station will initiate the proper emergency response. Central monitoring station procedures may vary.

Where should a CO detector be installed?

Ideally, a CO detector should be installed:
- Within 10 feet of all sleeping areas
- Inside the bedroom if it contains a fuel-burning appliance
- On every floor of the residence or building
- In any room that contains a fuel-burning appliance

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Where should a CO detector *not* be installed?

Ideally, a CO detector should not be installed:
- Within 10 feet of any cooking appliance
- Directly above a sink, cooker, stove, or oven
- Next to a door or window that could be affected by air currents (i.e., extractor fan or air vent)
- Outside or in a garage or attic
- In any environment that does not comply with the detector's environmental specifications
- In or below a cupboard
- Where air flow would be obstructed by curtains or furniture
- Where dirt or dust could collect and block the sensor
- Where it could be damaged or inadvertently removed

Are CO detectors required by law?

Most states and localities require CO detectors. Check with the local Authority Having Jurisdiction (AHJ) for CO detector requirements in your area. You can also get details on state CO laws by reviewing the map at: **www.SystemSensor.com/COmap**.

What are the System Sensor CO1224T and CO1224TR (round) CO detectors?

The CO1224T and CO1224TR detectors are 6-wire, electrochemical carbon monoxide detectors that work with both 12- and 24-volt fire and security panels and have central station monitoring capabilities. These are the first CO detectors to include a test feature that verifies CO cell functionality.

How do electrochemical detectors compare with other detectors?

Electrochemical detectors are the newest, most refined CO detectors available. They take the most accurate readings of CO concentrations, from low levels of CO that may be hazardous over long periods of time to high concentrations that present an immediate danger.

What is the life span of the CO1224T/CO1224TR CO detector?

The electrochemical sensor operates for approximately ten years. Its built-in timer will signal the control panel when the detector needs to be replaced.

How should the CO1224T/CO1224TR unit be wired to a fire or security control panel?

Per NFPA 720, CO detectors must be wired on a non-fire zone. No other fire or intrusion device shall be installed on the CO zone to prevent the CO alarm from being reset while it is monitoring low-level CO accumulation. This could cause a dangerous level of CO to be present for an unsafe amount of time.

Can the CO1224T/CO1224TR be functionally tested?

Yes, in fact the CO1224T/CO1224TR is the first system CO detector that can quickly and easily be tested using Solo C6 brand canned carbon monoxide.

Is canned carbon monoxide safe to use?

Yes. Carbon monoxide is dangerous based on two factors: concentration in the environment and length of exposure. The lower the concentrations, the longer people need to be exposed in order for harmful symptoms to occur. The concentrations of gas found in canned CO products will not cause symptoms of harm when dispensed for short amounts of time. When using canned CO, please read and follow all manufacturer's instructions.

Does the RealTest feature take a lot of time?

No. The RealTest feature on the CO1224T/CO1224TR allows the installer to easily test the detector in less than one minute.

What is the warranty for the CO1224T/CO1224TR?

System Sensor warrants the CO1224T/CO1224TR to be free from defects in materials and workmanship under normal use and service for a period of three years from date of manufacture. Please see the installation manual for complete warranty information.

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