P POTTER
The Symbol of Protection

Features

- Full compliance with UL 2075 & ULC CSA 6. 19-01
- Code required trouble relay
- Wiring supervision with SEMS terminals
- 12/24 VDC
- Current draw of 20mA in standby and 40mA in alarm
- Versatile mounting for wall and ceiling
- Electrochemical sensing technology
- RealTest® enables a functional test using canned CO
- 10-year end-of-life timer
- Tested up to 12,000 ft above sea level

Description

When dangerous amounts of CO are detected, the System Sensor® CO1224 Series CO detectors alert residents by sounding and flashing a temp 4 signal alarm. With 24/7 central station monitoring, residents are guaranteed protection whether they are away from home, sleeping, or already suffering from the effects of CO. The CO1224 Series detectors are designed for system operation. These detectors are fully listed to UL 2075 (US models only) and CSA 6.19-01 (Canada model only) 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 CO1224 Series detectors 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 CO1224 Series detectors will operate on most industry security and fire alarm control panels. With RealTest® technology, the CO gas sensing cell used in the CO1224 Series CO detectors can be tested using a CO gas agent, fully meeting the requirements of NFPA 720: 2009 (US models only). Simply put the detector into RealTest mode, spray a small amount of CO into the detector per the installation instructions, and within seconds the detector will alarm, indicating successful gas entry.

Technical Specifications

Operating Voltage	12/24VDC
Audible Signal	85 dB in Alarm
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
Size	5.1" x 3.3" x 1.3" (L x W x H)
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 backbox; surface mount to wall or ceiling

Architectural/Engineering Specifications

Carbon monoxide (CO) detector shall be a system-connected System Sensor model number CO1224T or CO1224TR listed to Underwriters Laboratories UL 2075 for Gas and Vapor Detectors and Sensors. The Canadian model CO1224A, is ULC listed to CSA 6.19-01, for residential carbon monoxide alarm devices. 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 that 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. The detector shall provide a means to test CO gas entry into the CO sensing cell. The detector shall provide this with a test mode that accepts CO gas from a test agent and alarms immediately upon sensing CO entry. For the CO1224T only, the detector shall perform in the detection of CO up to 12,000 feet above sea level and alarm within the time specified by ANSI/UL 2034 for CO concentrations of 70, 150 and 400 parts per million (ppm), as verified by a Nationally Recognized Test Laboratory.

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 detector is in a trouble condition, it will send a trouble signal to the panel.
End-of-Life Timer:	After the sensor inside the detector has reached the end of its useful life, a trouble signal will be sent to the panel. This will indicate that it is time to replace the detector. An electrochemical carbon monoxide detector lifespan is approximately ten years, and the detector must be replaced by the date marked on the inside of the product.
CO-PLATE:	System Sensor also offers the CO-PLATE CO Detector Replacement Plate to cover the footprint (when necessary) of previously installed competitive carbon monoxide detectors that require replacement.

Ordering Information

Part Number	Ordering Part Number	Description
CO1224T	1430984	12/24 volt, 6-wire system-monitored carbon monoxide detector with RealTest® Technology (US only)
CO1224TR	1430985	12/24 volt, 6-wire system-monitored round carbon monoxide detector with RealTest® Technology (US only)
CO1224A	Call for Part Number	12/24 volt, 6-wire system-monitored carbon monoxide detector with RealTest® Technology (Canada only)
CO-PLATE	Call for Part Number	CO detector replacement plate to cover the footprint of previously installed competitive detectors (US & Canada)