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Description

With RealTest™ technology, the CO gas sensing cell of the CO1224T and CO1224TR CO detector can be tested using a carbon monoxide gas agent. Simply hold the test button for two seconds. After the alarm cycle (temp 4) the green LED will flash about once per second, indicating that the detector is ready to accept CO for testing. Spray a small amount of CO into the detector per the installation instructions, and within seconds the detector will alarm, indicating successful gas entry.

If dangerous amounts of carbon monoxide is detected, the CO1224T and CO1224TR will alert residents by sounding and flashing a temp-4 signal alarm. 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 CO1224T and CO1224TR are specifically designed for system operation. This means the detector is fully listed to UL 2075,

offering a code required trouble relay, which sends a sensor failure or end-of-life signal to the control panel and the central station, as well as SEMS-type terminal Philips-head screws, which provide a quicker and more positive wiring connection and code required wiring supervision.

Also, the CO1224T and CO1224TR offer 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 CO1224T and CO1224TR are a 12/24 VDC detector, it will operate on most industry security or fire alarm control panels.



Features

- RealTest™ technology allows installer to test detector with CO gas
- Full compliance with UL 2075
- A code required 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

Ordering Information

| Model Number | Part Number | Description |
|--------------|-------------|--|
| CO1224T | CO1224T | 12/24 Volt, 4-wire system-monitored carbon monoxide detector |
| CO1224TR | CO-1224TR | 12/24 Volt, 4-wire system-monitored round carbon monoxide detector |
| CO-PLATE | CO-PLATE | CO detector replacement plate to cover the footprint of previously installed competitive detectors as necessary. |
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Electrical Specification

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| Operating Voltage | 12/24 VDC |
| 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 |

Physical Specifications

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

RealTest™ Feature

The System Sensor CO1224T carbon monoxide detector with RealTest™ can evaluate the functionality of the CO sensing cell using canned test agent.



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.

NOTE: Check with local codes and the AHJ to determine whether or not a functional gas test is desired for an installation.

Hush Feature: Pushing the Test/Hush button will silence the sounder for 5 minutes (except in RealTest mode).

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 detector's internal sensor has reached the end of its 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 six years, and the detector must be replaced by the date marked on the inside of the product.

Architectural/Engineering Specifications

Carbon monoxide detector shall be a Harrington Signal model number CO1224T or CO1224TR, 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.

NOTICE: The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information are provided with the product and are available from Harrington Signal Inc. Fire Alarm. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact Harrington Signal Inc. Harrington Signal Inc. Fire Alarm reserves the right to change specifications without notice. Quality manufactured for Harrington Signal Inc. by System Sensor.