



Product

CO1224T/CO1224TR Carbon Monoxide Detector Specifications

Architectural/Engineering Specifications

Carbon monoxide detector shall be a System Sensor model number CO1224T/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. 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.

Electrical Specifications

The CO1224T/CO1224TR Operating Voltage shall be 12/24 VDC. The Audible Signal for the detector shall be 85 dB in alarm. Standby Current shall be 20 mA. Alarm Current shall be 40 mA (75 mA test). Alarm Contact Ratings shall be 0.5 A @ 30 VDC. Trouble Contact Ratings shall be 0.5 A @ 30 VDC.

Physical Specifications

The CO1224T shall measure: Length: 5.1 in, Width: 3.3 in, Height: 1.3 in. The CO1224T weight shall be approximately 7 oz. The Operating Temperature Range shall be 32°F to 104°F (0°C to 40°C). The detector's Operating Humidity Range shall be 22 to 90 percent RH. The CO1224T Input Terminals shall be 14 to 22 AWG.

The CO1224TR shall measure: Diameter: 5.1 in, Height: 1.3 in. The CO1224TR weight shall be approximately 11 oz. The Operating Temperature Range shall be 32°F to 104°F (0°C to 40°C). The detector's Operating Humidity Range shall be 22 to 90 percent RH. The CO1224T Input Terminals shall be 14 to 22 AWG.

The CO1224T/CO1224TR shall be mounted to a single-gang back box or surface mounted to a wall or ceiling.

Operation Modes

In Normal (standby) mode, the Green LED shall blink 1 time per minute. In Alarm mode, the Red LED shall blink in a temporal 4 pattern and the sounder will sound in a temporal 4 pattern.

RealTest[®] Feature: The System Sensor CO1224T/CO1224TR carbon monoxide detector with RealTest can evaluate the functionality of the CO sensing cell using a canned test agent. 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.