



- UL listed to Standard 2075
- 12 or 24 VDC power input
- Low current draw
- 85dB at 10' sounder
- Form C alarm and trouble relay
- Self-testing device
- 6 year warranty
- Wall or ceiling mount
- Operating temperature range:
40°F - 100°F (4.4°C - 37.8°C)
- 15% - 95% RH
- 14-22 AWG terminal size
- Contact rating: 0.1A - 30VDC non-latching

Description

Carbon Monoxide (CO) is a toxic odorless, tasteless, colorless gas that is present whenever organic compounds are involved in combustion. Many homes utilize either propane, natural gas or wood for heat and cooking purposes and the burning of these fuels produce CO. A malfunctioning appliance or flue will fill a space with this toxic gas completely unknown to the occupants.

The Potter CO 12/24 utilizes the premium Carbon Monoxide (CO) detection technology for accurate detection and false alarm immunity. The CO 12/24 will only respond to the presence of CO and will not react to other ordinary household chemicals that affect other detectors. When the CO is detected, an 85 decibel sounder and the alarm relay activate to indicate the presence of CO. The sounder can be silenced for four (4) minutes by pushing the Reset button.

The CO 12/24 operates on 0-28 VDC supplied by an intrusion or fire system. The device emits a Temporal 4 pattern when the presence of CO is detected. In addition to monitoring for tampering, the detector also monitors the sensor and detects if an internal problem exists. If a fault occurs within the detector, the trouble/service a horn activates and the trouble relay. This monitoring feature also complies with the sensor end-of-life requirement. The CO 12/24 has a 6 year warranty and life span. After 6 years, the detector needs to be replaced.

Alarm Response Times

CO Levels	Response Time
30 parts per million	No response for 30 days
70 parts per million	Within 60 to 240 minutes
150 parts per million	Within 10 to 50 minutes
400 parts per million	Within 4 to 15 minutes

Engineering Specifications

The Carbon Monoxide detector shall be a system detector and shall be a Potter CO 12/24. The detector shall have an operating range of 10-28 VDC. The normal stand-by current draw shall not exceed 100 micro-Amps. The wiring terminals shall accept wire from 22 to 14 AWG. The detector shall have a form C Alarm and Trouble relay rated at .1 amps at 30 VDC for monitoring.

The detector shall be listed for wall or ceiling mount. The detector shall have a LED that flashes to indicate a normal condition. The CO detector shall be UL listed to standard 2075. The detector shall have a button to provide a local silence of the sounder. The sounder shall resound within 4 minutes if an unsafe level of CO is still detected. The sensor shall be supervised for tampering as well as internal faults. Detectors that do not monitor the sensor shall not be acceptable.

Alarm Signals

Normal: Red LED flashes every 30 seconds indicating that the alarm is powered

Alarm: Flashing red LED and pulsating horn

Trouble/Service: Red LED flashes twice and horn "beeps" once every 30 seconds

Test: One chirp, then red LED flashes 4-5 times followed by 2 alarm signals