

Carbon Monoxide Detector 12/24 VDC FW-CO12, FW-CO1224

FEATURES:

- The first commercially available gas sensor that uses patented biometric technology to simulate CO gas level response in the human blood stream for immunity to false alarms from common household gases
- Independent lab tests prove superior false alarm immunity over electrochemical units (*Berkeley National Laboratory, Report #40566*)
- Powerful 85db alarm sounder & LED
- Solid state electronics; won't leak or dry up; not subject to orientation problems of other detectors
- Smart microprocessor and infrared sensor optimize life safety & detection accuracy
- Active self test and LED indicator
- Minimal current draw by incorporating infrared monitoring sensor: 20 μ A (microamps) standby; 60mA alarm; 30mA trouble
- Form C alarm & trouble relays
- Convenient wall or ceiling mountable (includes hardware)
- UL2075 Listed; tested to meet UL2034 CO response requirement
- Superior long life expectancy of 6 years, backed by an unsurpassed 6 year warranty

DESCRIPTION

These CO alarms are suited for residences, motels, hotels, and commercial or industrial system applications. The **FW-CO12** is designed for 4-6 wire connection to 12VDC alarm system control panels. The **FW-CO1224** is designed for 4-6 wire connection to 12 or 24VDC alarm system control panels. UL Listed (Household Fire and/or Burglary Panel with auxiliary signaling zones). Connect to signaling zones that can be designated for CO alarm use only.



APPROVALS

Listed by Underwriters Laboratories Inc. to the Category *Gas and Vapor Detectors and Sensors (FTAM) UL Standard 2075*

Why is carbon monoxide so dangerous?

When you breathe in carbon monoxide, it quickly attaches to the hemoglobin in your blood and creates carboxyhemoglobin (COHb). This bonding prevents oxygen from properly getting to your brain, other organs and muscles, causing damage to these vital organs very quickly.

High levels of CO are often fatal but low levels can also be dangerous. Long term, low levels of CO can lead to cardiovascular diseases including heart attacks, strokes or arrhythmias. The percentage of carboxyhemoglobin in your body indicates how poisoned you have been. COHb levels over 10% require immediate treatment, but people with health issues can be affected at lower percentages.

The best treatment for carbon monoxide poisoning is to deliver hyperbaric oxygen in a hospital setting. The victim is put in a chamber where the pressure and the concentration of oxygen slowly increases.

SPECIFICATIONS	
Sensitivity Setting	Unit will alarm at 150 ppm CO within 50 minutes
Power	12VDC nominal, operating voltage range 10-15VDC
Current Draw	Standby 20µA (microamps); Alarm 60mA max.; Trouble 30 mA
Field Wiring	14-22 AWG
Alarm and Trouble Signal Relays	Non-Latching Contact Ratings Form "C", 0.1A - 30VDC
Operating Temperature	4.4°C - 37.8°C (40°F - 100°F)
Operating Humidity	15 - 95% RH
Horn (Sounder) Loudness	85db @ 10ft (3.3 meters)
Diameter	4-15/16" diameter x 1-1/2"H (with base)

