MACURCO GAS DETECTION

MANUFACTURED BY AERIONICS

Monthly Topic: Carbon Monoxide (CO) vs. Carbon Dioxide (CO_2)

- CO and CO_2 are often mistaken for one another; however, they are quite different
- CO (Carbon Monoxide) is a colorless, odorless, tasteless toxic gas formed by the incomplete combustion of carbon compounds like gasoline, wood, coal, natural gas, propane, kerosene, oil and other heating gases. Automobile internal combustion engines are the largest source of CO.
- CO_2 (Carbon Dioxide) is a colorless, odorless gas with an acrid taste formed by human and animal respiratory cycle as well as combustion. Unsafe levels can build up in normally occupied areas as a result of poor ventilation. CO_2 is used for beverage carbonation and plant growth acceleration.

Carbon Monoxide (CO)	Carbon Dioxide (CO_2)
Nickname: **"Silent Killer"**	NA
CO is composed of one carbon atom & one oxygen atom	CO_2 is composed of one carbon atom & two oxygen atoms
Colorless	Colorless
Odorless	Odorless
Tasteless	Acrid Taste
Does not occur naturally in the atmosphere	Occurs naturally in the atmosphere at about 400 PPM
Result of incomplete combustion from carbon based compounds (ex. coal, natural gas, propane, oil, wood, etc.)	Formed by human and animal respiratory cycle as well as combustion
Flammable Gas	Non-flammable gas
Common Type of fatal poisoning	Poisoning is rare
Hazard: Binds to hemoglobin in the blood and acts as a poison	**Hazard:** Displaces oxygen in the room causing asphyxiation
Density: 28.01 kg/m^3 (slightly lighter than air - 29 kg/ m^3)	**Density:** 44.01 kg/m^3 (heavier than air)
Symptoms: dizziness, headache, nausea, shortness of breath, confusion, blurred vision, loss of consciousness	**Symptoms:** increased heart rate, frostbite, panic, convulsion, impaired consciousness
Target Organs: lungs, blood, heart, central nervous system	**Target Organs:** respiratory system, cardiovascular system
OSHA Standards: Permissible Exposure Limit (PEL) 50 PPM	**OSHA Standards:** PEL 5,000 PPM
NIOSH Standards: Recommend Exposure Limit (REL) 35 PPM	**NIOSH Standards:** REL 5,000 PPM

Macurco Gas Products

- CM-E1
- CM-6
- CD-6
- CM-1

Macurco Literature

- Quick Reference Sheet
- Product Brochure
- Parking Garage Guide
- Gas & Product Training

Learn More

- Carbon Monoxide
- Carbon Monoxide NIOSH
- Carbon Dioxide
- Carbon Dioxide NIOSH

Common Applications where both gases could be present

- ✓ Parking Garages
- ✓ Food Processing
- ✓ Office Buildings
- ✓ Restaurants
- ✓ Retail
- ✓ Maintenance Facility
- ✓ Vehicle Repair Facility
- ✓ Chemical Plants
- ✓ Bus Depots
- ✓ Grow Facilities
- ✓ Manufacturing Plants
- ✓ Confined Spaces
- ✓ Automobile Exhaust
- ✓ Food & Beverage
- ✓ Schools
- ✓ Wastewater Treatment
- ✓ Pharmaceuticals
- ✓ Fast Food Establishments

Visit our website: www.macurco.com
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