

MACURCO

GAS DETECTION



Monthly Topic: Carbon Dioxide CO₂

- Carbon Dioxide (CO₂) is the primary greenhouse gas emitted through human activities. CO₂ is present in the atmosphere as part of the earth's natural cycle.
- Carbon Dioxide is a colorless, odorless, incombustible gas formed during respiration, combustion and organic decomposition.
- People who are exposed to high concentrations of CO₂ may experience fatigue, tachycardia and asphyxiation. This can lead to respiratory function problems, kidney damage, a coma or death.
- There are three main factors that have been the leading contribution of CO₂ in the United States.



- Electricity – Electricity generation and transmission uses a large amount of energy. The majority of energy in the U.S. is created by the combustion of fossil fuels. This is the biggest source of CO₂ emissions.
- Transportation – The combustion of gasoline, diesel and other fuels in motor vehicles is the second largest source of CO₂ emissions.
- Industrial processes – The modern age has brought us new products and industries, but the processes involved are another contributing factor to increases in CO₂ emissions.



- Due to human activities since the start of the Industrial Revolution in 1850, CO₂ levels have been steadily rising. As a result more and more people are relying on the low level detection with life safety systems.
- Hot spots for CO₂ detection include high traffic areas like schools, auditoriums, offices and other community spaces that are frequently occupied.

Macurco Gas Products

- [CD-6](#)
- [CD-12](#)
- [Explosion Proof 5100-88-IT](#)
- [Weatherproof Housing Kit](#)
- [Duct Mount Kit](#)

Gas in the News

- [CO₂ in McDonalds](#)
- [Restaurant CO₂ system](#)
- [Why is CO₂ in buildings?](#)
- [Air Quality in Schools](#)
- [OSHA CO₂ Article](#)

Learn More

- [CO₂ and Grow Facilities](#)
- [CO₂ MSDS](#)
- [CO₂ Questions & Answers](#)
- [CO₂ Health Risks](#)
- [CO₂ and the CDC](#)

Applications

- | | | |
|----------------------------|----------------------|------------------------------|
| ✓ Restaurants | ✓ Homes | ✓ Electric Power Plants |
| ✓ Fire Suppression Systems | ✓ Bottling Facility | ✓ Retail |
| ✓ Auditoriums | ✓ Parking Garages | ✓ Greenhouse/Growth Facility |
| ✓ Cement Processing | ✓ Oil Wells | ✓ Schools |
| ✓ Vehicle Repair Facility | ✓ Automobile Exhaust | ✓ Hospitals |
| ✓ Forklifts | ✓ Mines | ✓ Breweries |
| ✓ Boiler Rooms | ✓ Slaughterhouse | ✓ Dry Ice Storage |

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