

The **Occupational Safety and Health Administration (OSHA)** has established a permissible exposure limit (PEL) for Carbon Dioxide (CO₂) of 5,000 parts per million (ppm) averaged over an 8-hour workday (time-weighted average or TWA)

CARBON DIOXIDE

Carbon dioxide is an odorless, colorless, non-flammable gas, but at different temperatures and pressures, CO₂ can be a liquid or a solid (i.e., dry ice).

Exposure to high concentrations of CO₂ can cause unconsciousness or death.

CO₂ can quickly fill up confined spaces creating a significant, even deadly safety hazard.

Carbon dioxide monitors contribute to safe working environments in any location where CO₂ levels are present.

INDUSTRY APPLICATIONS

Food & Beverage - (Breweries, Wineries, Bottling Plants, Bars & Restaurants, Food Processing)

Medical Laboratories

**Agricultural Locations
Indoor Air Quality Monitoring**

Pharmaceutical

Among many others

1140 Ensell Road
Lake Zurich, Illinois 60047
www.pureairemonitoring.com
(847)726-6000

Carbon Dioxide Concentration (ppm)	Health Effects
250 - 350 ppm	Average CO ₂ concentration for outdoor, ambient air
350 - 1,000 ppm	Average CO ₂ concentration for occupied indoor spaces with good air exchange
5,000 ppm	OSHA Permissible Exposure Limit (PEL) and ACGIH Threshold Limit Value (TLV) for 8-hour exposure
10,000 - 15,000 ppm	Drowsiness, mild respiratory distress for some people
30,000 ppm	Moderate respiratory distress, increased heart rate and blood pressure
40,000 - 80,000	Increased respiratory distress due to oxygen deprivation, dizziness, confusion, headache, unconsciousness. Immediately dangerous to health or life