

Carbon Dioxide (CO₂)

Learn more about gases

Carbon Dioxide

CO₂

What is CO₂?

Carbon Dioxide (CO₂) is a chemical compound of a carbon atom and two oxygen atoms. CO₂ is an acid odourless colourless gas at room temperature. CO₂ occurs naturally in Earth's atmosphere as a trace gas in number of ways. It is released by the exhaling of organisms and it is given off through the combustion of matter.

Where to find CO₂?

Basically everywhere, but typically CO₂ sensors are installed in classrooms, office buildings, cellars and vehicles.

Where should place CO₂ sensors?

Because CO₂ is slightly heavier than air and also should be mounted 30 - 50 cm at floor level.

Do not place the detector right next to or over a fireplace or flame-producing appliance, neither close to the outdoors nor doors or windows.

Symptoms

<2500 ppm	Limited or no health effects
<5000 ppm	Fatigue, loss of focus and concentration, uncomfortable 'stuffy' feeling in the air
<40000 ppm	Headache, drowsiness, tiredness
<1000 ppm	Severe headaches, slight intoxication depending on the exposure time
<100000 ppm	Immediately dangerous to life or health
>100000 ppm	Loss of consciousness within minutes, coma, risk of death

