



Most people have no idea what CO₂ is and how it affects us in long and short term. You could say that what you breath out, CO₂ is a rest product leaving the body, just like what you do in a restroom. Rest products are mostly not good for you to take it in again.

Cars are getting extremely air-tight and ventilation is an important factor for safety and health. Outdoor fresh air can be measured by the amount of CO₂ which today is around 400ppm in rural areas. In a building a standard of maximum 1000 ppm is tolerated. You can feel when it exceeds that level in a full meeting room, you start to yawn, and that is a silent scream for fresh air. A car with activated recirculation can easily reach above 4000ppm within 15 minutes. Meaning that the cabin air quality becomes a danger since it reduces our cognitive abilities and reactions.



But who turns on recirculation?

Well the bad news is that many drivers have found out that by using recirculation they can save fuel or electric power. Also, the air conditioning appears to be more efficient providing cooler air in shorter time. Especially in very hot climates when the air condition has to work hard this is efficient to gain comfort and save energy. In colder climate the range of an electric vehicle can be extended with recirculation.

Ventilation is not for amateurs to handle Most modern commercial buildings have demand controlled ventilation meaning that CO₂ is monitored, and ventilation constantly adapted to the current demand. By doing so a lot of energy is saved without sacrificing air quality. From our small world of sensors, we think the same applies to all vehicles, sensors can take care of the safety in the cabin. People don't care or understand the byproduct. When they open the window, the freshness makes them think of fresh air, not the opposite, that they actually get rid of the dangerous "waste".



[Drowsy Driver&Child Left Behind Publication \(klick here\)](#)

What makes Senseair so special in this

Our purpose is to "make sense of air", we truly want to put our technology at work for safety in all aspects that connects air quality to health and performance. We are also offering a special sensor for demanding applications like the automotive industry. This is a unique sensor with Optical Solid State technology and it is great news for the automotive world as infrared emitters used to be a "lamp", now we use LED. **We think that demandcontrolled ventilation can save lives and energy i all vehicles today.**



[Find out why the journalist had to undress \(klick here\)](#)



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