



# Can you afford to ignore CO<sub>2</sub> Safety?

Protect your staff • Save money • Comply with the law



Draught Beer Applications



Fast Food Restaurants



Greenhouses



Breweries



Soft drink plants

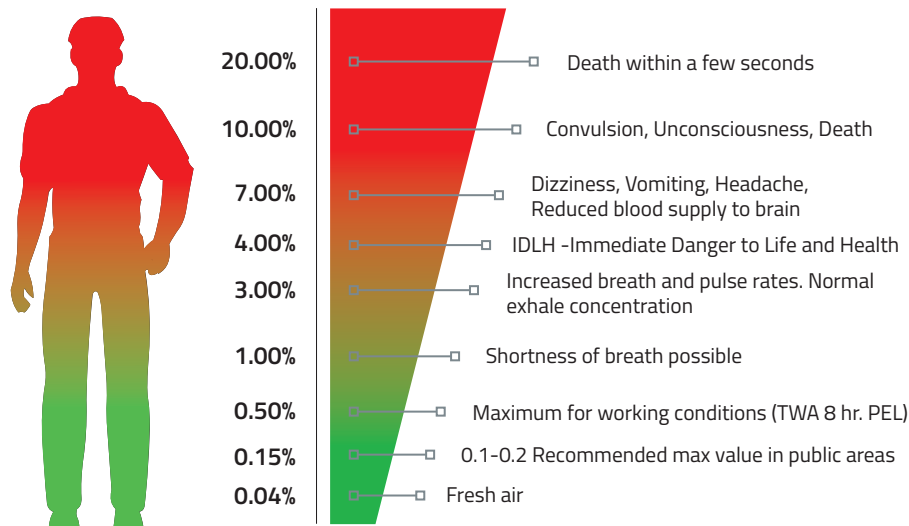


Wineries

# Why detect CO2?

## Health dangers

CO2 has a significant effect on the function of the human body. Carbon Dioxide in its gas form is an asphyxiant as well as being colorless and odorless. Therefore it's imperative that we detect possible CO2 leaks early, before putting employees and/or customers at risk.



## Loss of uptime and revenue

In addition to the health risks involved with CO2 leaks, the situation often inhibits revenue due to costly, unscheduled CO2 refillings and loss of revenue. With easy installation, perfect functionality and extremely low maintenance, the LogiCO2 System delivers an easy way of minimizing any CO2 risks for the working staff and customers 24/7.

## Regulations of CO2 in Europe

The European Council Directive 98/24/EC of 7 April 1998, Article 7, Section 4:

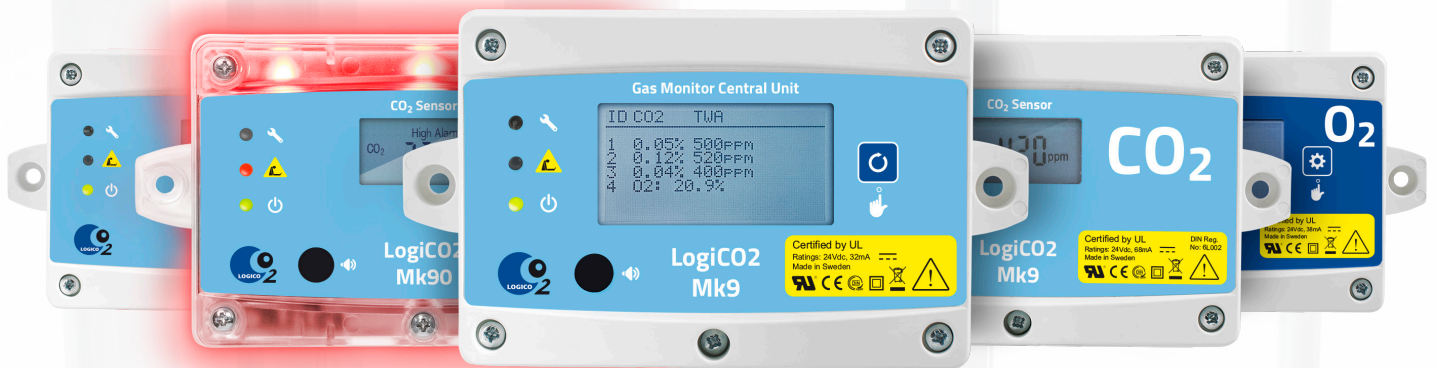
–“the employer shall take the measures necessary to provide the warning and other communication systems required to signal an increased risk to safety and health, to enable an appropriate response and to launch remedial actions, assistance, escape and rescue operations immediately if the need arises.”

The European COMMISSION DIRECTIVE 2006/15/EC:

This regulation establishes a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC. The directive clearly states the TWA limit at 5000 ppm in the appendix that must not be exceeded.







# Our solution -Proven technology

With installations in 126 countries worldwide the LogiCO2 Safety System is the world leading, most secure and easy solution to ensure that staff and customers don't get exposed to hazardous levels of CO2.

LogiCO2 has over 40 000 sensors installed in the largest fast food restaurant chain in the world and was awarded the Innovation Prize in 2016 at their World Convention.

The LogiCO2 System is easy to install and is virtually maintenance free.

The system complies with all relevant regulations and standards in Europe, the US and in the rest of the world.

The LogiCO2 Safety System has a MTBF of 15 years and comes with a trade leading 5 year warranty.

# What makes LogiCO2 products **Unique?**



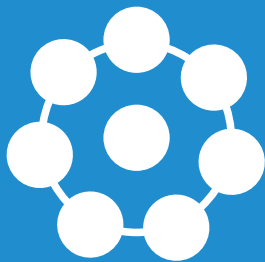
## Quick and easy installation

With digital plug and play technology you save on installation cost as well as having a more secure installation.



## Automatic self calibration

LogiCO2 has a real calibration algorithm. There is never a need to change the calibration under a sensors lifetime under normal conditions. This makes for substantial reductions on maintenance costs.



## Easily expandible

LogiCO2 standard system can be expanded up to 12 sensors which makes it flexible if your needs would change.



## Altitude compensation

The system has built in altitude compensation as standard on all models.

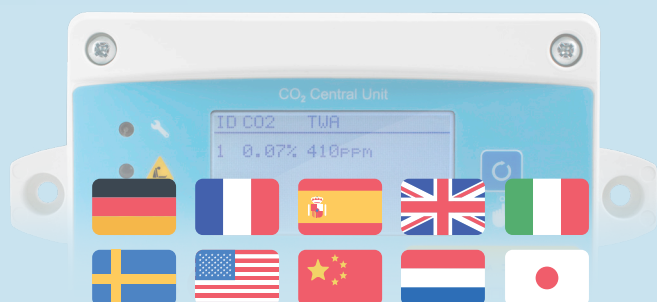
## Future proof

All LogiCO2 sensors manufactured after 2004 are compatible with present and future products, ensuring that an older system can always be upgraded with the latest technology and features.



## Approved all over the world

Tested and approved as a lifesaving CO<sub>2</sub> system by internationally certified testing institutes. It is UL certified. UL has also tested measurement accuracy over time, altitude compensation, repeatability over time and response time. The system complies with all local US safety codes as well as all international safety codes from around the world. These tests and international approvals makes it easier for you to make your choice. Don't let your establishment be a testing ground for safety!



### Multilingual

The Central Unit has a "what to do" display which can communicate in over 18 languages



### Certified Installers

For over 25 years LogiCO<sub>2</sub> has trained and certified the installation crews.



### Smartphone compatible

Using our Sniffer gateway (accessory) the system is built for easy interaction with smartphone devices via long range Bluetooth BLE 4.0

## Modbus

### Digital Communication

The digital RS-485 Modbus protocol used throughout the system simplifies installation and expansion.

### Longtime measurement log

The system has an internal measurement log of 14 days. If for some reason the Central Unit is immobilised, the sensors will enter stand alone mode, optimising safety.



# Where is CO2 safety needed?

## Examples of applications

### Pubs and Restaurants

The LogiCO2 Safety System can monitor four alarm levels ensuring that all local and national safety codes concerning CO2 exposure are not exceeded. As well as insuring safety, the system will indicate when there are small leaks. They might not be dangerous but will undoubtedly be costly over time and detecting leaks will prevent you from running out of CO2, with the loss of sales and revenue as a result.



### Wineries

We all know about the CO2 risks in the wineries. Every each litre of grape juice processed into wine produces 60 litres of CO2 during the fermentation! This can have harmful effects on the personnel even in low doses. The LogiCO2 System is the perfect safety solution to protect staff, for both small and big wineries and comply with the European Safety Directives and every European country STEL (Short Term Exposure Limit) for CO2.





## Other CO2 applications

Slaughterhouses  
Freezing Industry  
Dry Ice Production  
Industrial CO2 Cleaning  
CO2 Smoke applications

Soft drinks  
Swimming pools  
Bio-ethanol fireplaces  
CO2 HVAC units  
Industrial dishwashing

Food packaging  
Industrial de-greasing  
Anti bacterial applications  
Refrigerant  
Water works

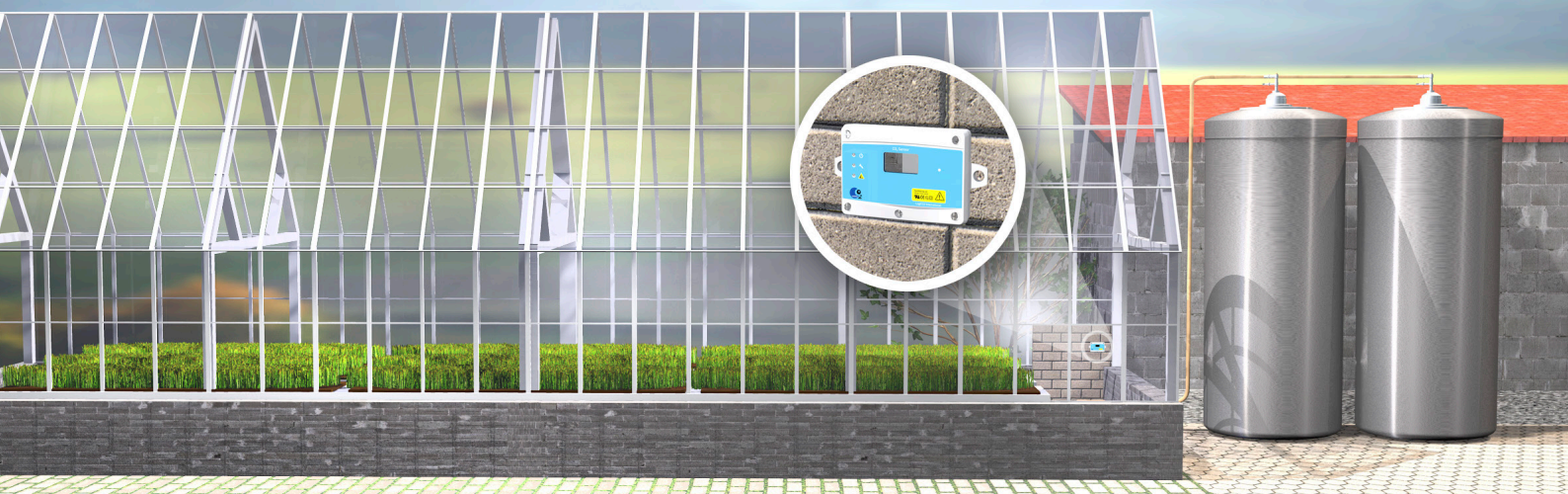
## Breweries

Fermentation within the brewery industry produces CO2 which can have harmful effects on the personnel. The LogiCO2 System is the perfect safety solution, in order to comply with the European Safety Directives. In microbreweries or wineries up to twelve sensors can be connected to a standard Central Unit. In larger breweries up to 29 sensors can be connected to a Telemetry based system, using the MODBUS protocol.



## Greenhouses

CO2 is added to greenhouses maximizing photosynthesis in the plants. Use the CO2 Safety System to improve safety as well as function. Using the LogiCO2 System it is possible to both control the CO2 levels in the greenhouse as well as ensuring safety for personnel according to existing legislation.



# The one stop supplier for CO<sub>2</sub> safety



Sets and Kits



Portable



Horns and Strobes



Valves and Remote controls



Software and Applications



Tutorials and Instructions



## CO<sub>2</sub> Risk Calculator

**Determine if your establishment is safe.**

When calculating the risks with CO<sub>2</sub>, mechanical ventilation should not be taken into consideration. Partly because CO<sub>2</sub> is a heavy gas, which is difficult to ventilate, but also because the ventilation can be switched off.

Download our free app "CO<sub>2</sub> Risk Calculator" at Appstore or Google Play, or go to: [www.logico2.com/calculator/](http://www.logico2.com/calculator/)



Go to Risk Calculator  
on our website



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