LogiCO2 Mk90
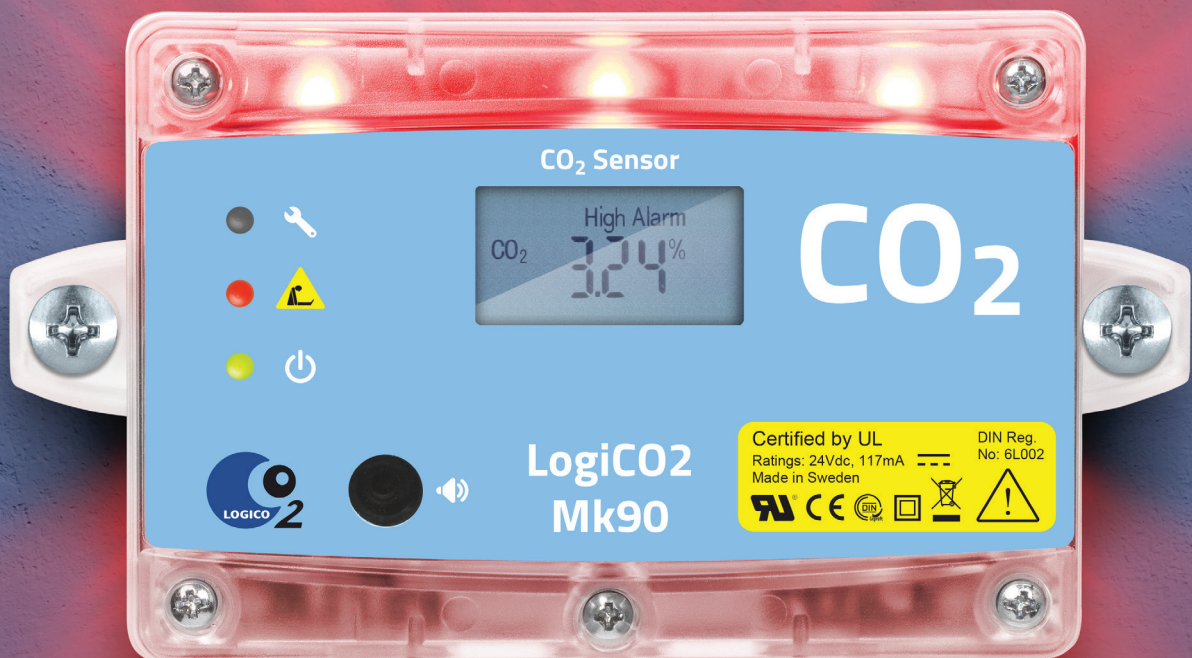## Stand-Alone CO2 Alarm System

CO2 Sensor, Warning Lamp and Horn **- all in one Unit**

A simple solution
to a complicated problem

Mk90 Stand-Alone CO2 Alarm System

The LogiCO2 Mk90 is **the easiest and most cost effective way** to Detect and Alert of DANGEROUS CO2 leakages. It also inhibits lost revenue due to costly CO2 leaks. With easy installation, virtually zero maintenance and perfect functionality, the LogiCO2 Mk90 is the logical way of minimizing any CO2 risks for the working staff and customers 24/7!

The LogiCO2 Mk90 can be connected with remote Horn Strobes as well as a remote a Central Unit with digital display -advising you what to do in different ALARM situations! The LogiCO2 Mk90 comes bundled with a trade leading five year warranty.

Quick and easy installation
With digital plug and play technology you save on installation cost as well as having a more secure installation.
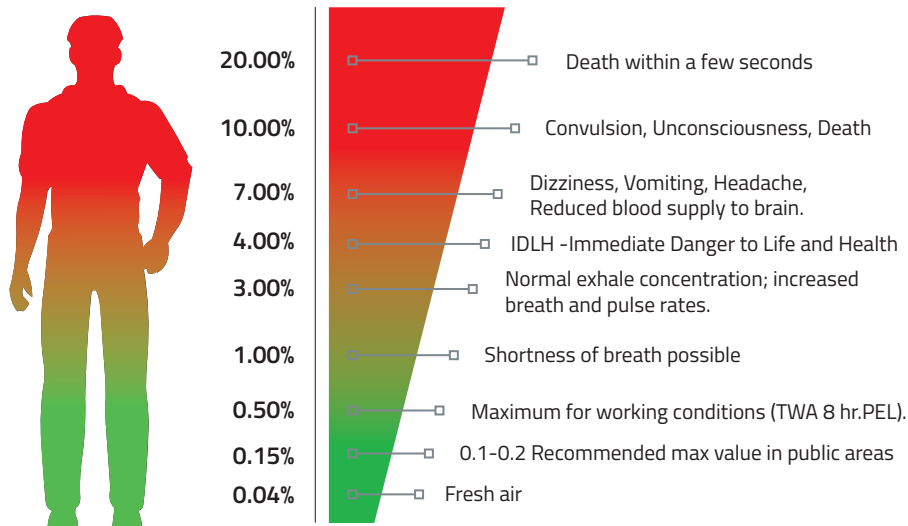
Automatic self calibration
LogiCO2 has a real calibration algorithm. There is never a need to change the calibration under a sensors lifetime under normal conditions. This makes for substantial reductions on maintenance costs.

The **ideal solution** for
CO2 detection in working environments

Effect of CO2 on the Human body

20.00%	Death within a few seconds
10.00%	Convulsion, Unconsciousness, Death
7.00%	Dizziness, Vomiting, Headache, Reduced blood supply to brain.
4.00%	IDLH -Immediate Danger to Life and Health
3.00%	Normal exhale concentration; increased breath and pulse rates.
1.00%	Shortness of breath possible
0.50%	Maximum for working conditions (TWA 8 hr.PEL).
0.15%	0.1-0.2 Recommended max value in public areas
0.04%	Fresh air

Alarm Levels
The CO2 Alarm is set to have the default Alarm Levels at:

TWA 0.5% Time Weighted Average, in accordance with existing European Directive, the OSHA (The American Occupational Safety and Health Association) and the ACGIH.

Alarm 1.5% A value chosen to enable personnel to be able to repair a leak without endangering them in any way.

High Alarm 3% STEL, Short Time Exposure Limit OSHA, ACGIH, Germany, Belgium and Holland.
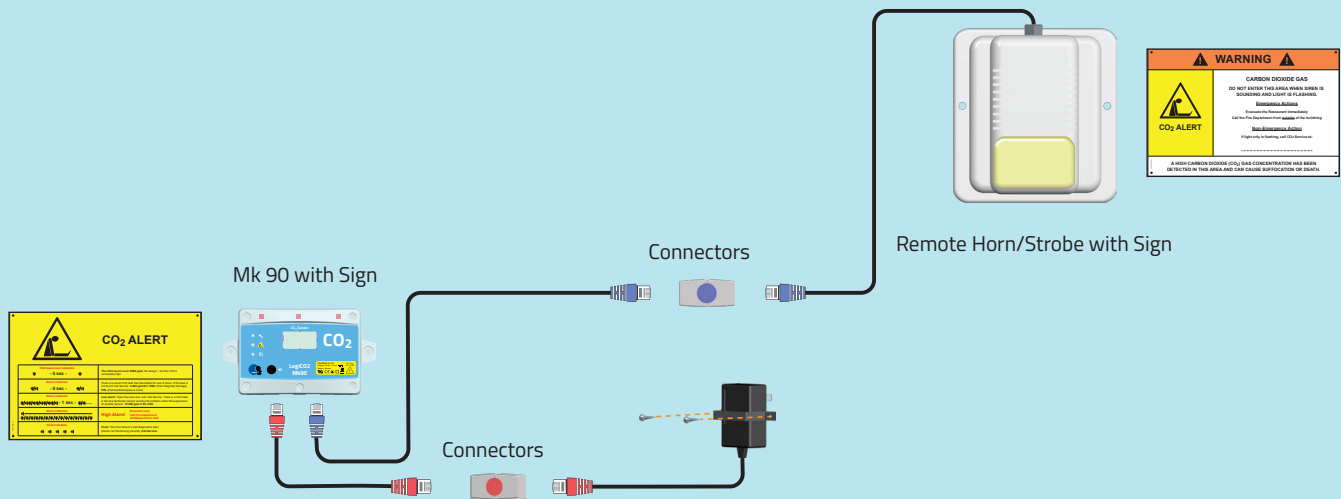
Easily expandible
LogiCO2 standard system can be expanded up to 8 sensors which makes it flexible if your needs would change.

Modbus

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

Easy installation

Mk 90 with Sign

Connectors

Remote Horn/Strobe with Sign

Connectors

Mk90 Stand-Alone CO2 Alarm System
Technical specification

Technical data Mk90 Detector

Operating Principle:	Non-dispersive infrared (NDIR)
Measurement range:	0.00 to 6,7% volume CO2
Operating temperature:	0 to 45° C (Sensor works from –20°C but values valid only for0–45 °C)
Operating humidity:	0–95% RH non condensed
Storage temperature:	–40 to + 70 ° C
Power supply:	24V DC ± 10%
Power consumption:	117 mA peak, 56 mA average
Serial communication:	Modbus protocol over RS485
Output:	Two 24 volt transistor outputs
Automatic calibration:	Several times per year
Dimensions (LxWxD):	90 x 161 x 38 mm /3.5" x 6.3" x 1.5"
Ingression protection:	IP54

Technical data Horn/strobe

Nominal voltage:	18–24V DC
Average current:	120 mA @ 24V DC supply
Decibel:	110 dB / 1 m
Flash intensity:	115 CD
Flash frequency:	65/min
Ambient temperature:	–5°C to +50°C (+23°F to +122°F)
Dimensions (LxWxD):	134 x 115 x 61 mm /5.3" x 4.5" x 2.4"
Ingress protection:	IP65

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