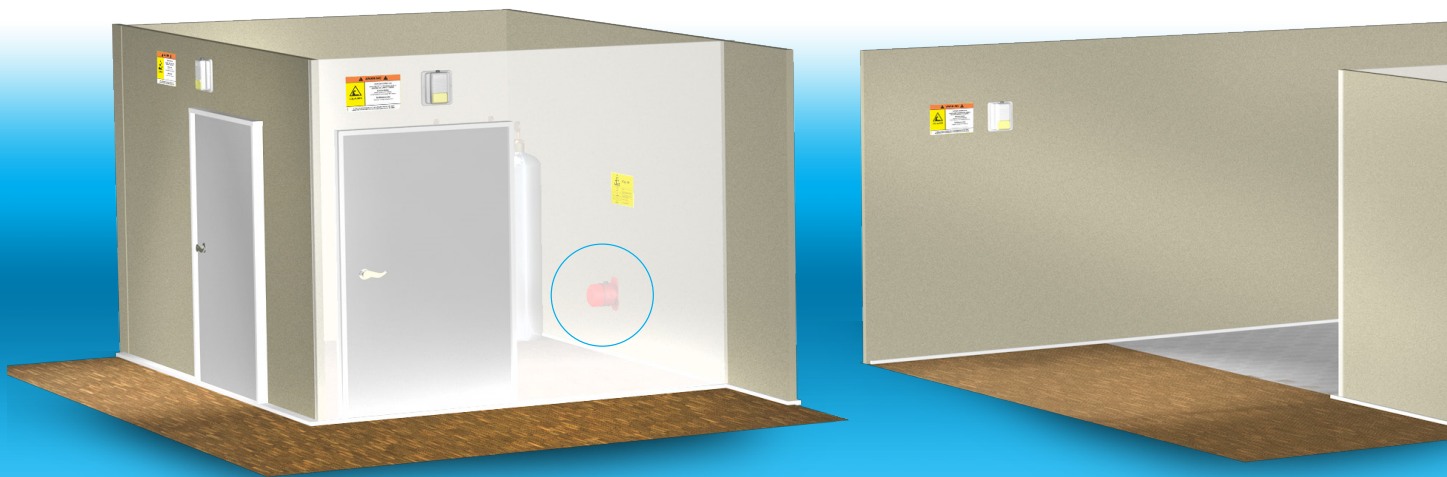# CO2 Alert Mk10

All in ONE Sensor Solution CO2 Sensor, Warning Lamp and Horn in ONE Unit.

Designed & engineered
by LogiCO2 Online

LOGICO2

A simple solution
to a complicated problem

CO2 Alert Mk10

The CO2 Alert Mk10 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, zero maintenance and perfect functionality, the CO2 Alert Mk10 is the logical way of minimizing any CO2 risks for the working staff and customers 24/7!

The Alert Mk10 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!

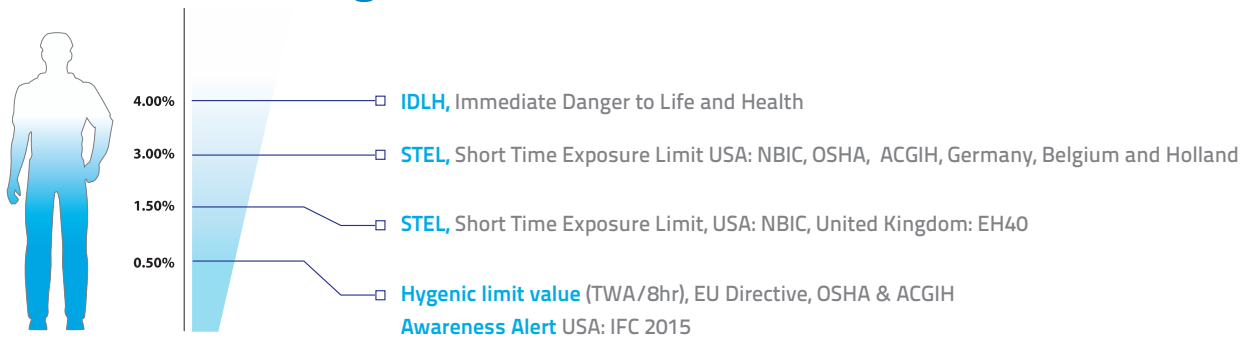The CO2 Alert MK10 comes bundled with a trade leading five year warranty.

Basic specifications

1. 5000ppm – Awareness Alert

2. TWA 8hrs 5000ppm – Alarm

3. 15 000ppm – Alarm

4. 30 000 ppm / 3% –High Alarm

- ABC Patented Automatic Baseline Calibration
- Five year warranty
- Modbus Communication
- Latest NDIR (NonDispersive InfraRed) technology

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

International regulations for CO2

4.00%	**IDLH,** Immediate Danger to Life and Health
3.00%	**STEL,** Short Time Exposure Limit USA: NBIC, OSHA, ACGIH, Germany, Belgium and Holland
1.50%	**STEL,** Short Time Exposure Limit, USA: NBIC, United Kingdom: EH40
0.50%	**Hygenic limit value** (TWA/8hr), EU Directive, OSHA & ACGIH
	Awareness Alert USA: IFC 2015

Alarm Levels

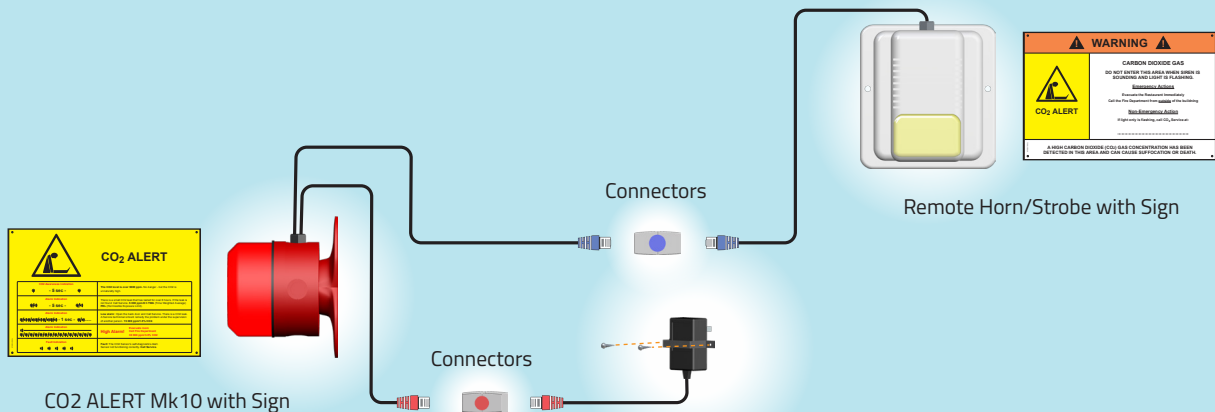The CO2 Alarm is set to have the default Alarm Levels at:

5000ppm 0.5% Awareness Alert In accordance with IFC 2015

TWA 0.5% Time Weighted Average, in accordance with National Fire Protection Association 55 and existing European Directive, the OSHA (The American Occupational Safety and Health Association) and the ACGIH.

Pre-Alarm 1.5% In accordance with NBIC Part 1 Supplement 3. A value chosen to enable personnel to be able to repair a leak without endangering them.

High Alarm 3% In accordance with NBIC Part 1 Supplement 3 and Short Term Exposure Limit defined by ACGIH and NIOSH STEL, Short Time Exposure Limit OSHA, ACGIH, Germany, Belgium and Holland.

Connectors

Remote Horn/Strobe with Sign

Connectors

CO2 ALERT Mk10 with Sign

CO2 Alert Mark 10
Technical specification

Target gas	CO2
Operating Principle	Non-dispersive infrared (NDIR)
Measurement range	0.04 to 2% volume CO2 Up to 3.2% volume CO2 extended range
Accuracy	+–0.02% volume CO2 +–3% of reading
Response time	2 minutes by 90% for diffusion sampling method model
Operating temperature	0 to 50° C (Sensor works from –20° C but values valid only for 0–50° C)
Operating humidity	0 to 85% RH non condensed
Storage temperature	–40° to + 70° C
Weight	400 grams
Power supply	24 V ±5% CE, UL approved
ABC Automatic calibration	Every 15 days
Power consumption	600 mA peak, 30 mA average
Sensor life	15 years in normal commercial environments

Approval
CE, EN55022 :2006/A1 :2007, EN55024/A2 :2003, EN61000–3–2 :2006, EN61000–3–3/A2 :2006,
AS/NZS CISPR 22 :2006, IEC/EN :IT55022/55024, S8 sensor approval for CO2 Contamination
LNE No.2004–945 of 09/01/2004 rules of certification NF128 rev 12 (Nov 2007), UL

Ingression protection	IP 5**4 (TUV) IP 44 (UL)**
Serial communication	MODBUS – RS485
Output	Two 24 volt transistor outputs
Warranty	5 Years

Alarm signals (Default)

1.)   ☀ - 5 sec - ☀ : 5000ppm Awareness Alert.

2.)   ☀/◀)) - 5 sec - ☀/◀)) : TWA 5000ppm 8 hrs.

3.)   5 x ☀/◀)) –1 sec– 5 x ☀/◀)) : 1.5%

4.)   ☀/◀)) ☀/◀)) ☀/◀))... : 3.0%

5.)   ◀) ◀)) ◀)) ... Sensor Fault indication

Designed to be in compliance with EU Commission Directive 2006/15/EC of 7 Feb 2006
as well as OSHA in regards to PEL of TWA for CO2