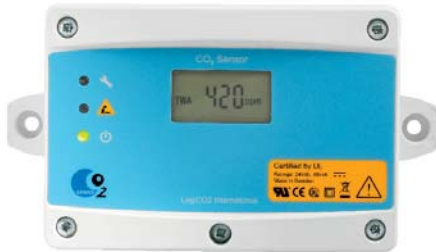


# CO2 MK9 SENSOR

for CO2 Safety System



## TECHNICAL DATA

<b>Power supply:</b>	12-24V DC
<b>Number of sensors:</b>	1-8
<b>Communication:</b>	RS485 Modbus
<b>Automatic calibration:</b>	60 days

## FUNCTION

The Carbon Dioxide (CO<sub>2</sub>) Sensor is designed to measure the ambient CO<sub>2</sub> concentration. It provides an alarm in the event that a CO<sub>2</sub> level considered unhealthy/dangerous in accordance with existing safety codes.

The basic CO<sub>2</sub> Sensor uses IR technology to measure the CO<sub>2</sub> concentration and communicates with MODBUS. It can be used as a stand alone unit, connected to the LogiCO<sub>2</sub> Central Unit or be used as a sensor in a larger computerised monitoring system. A separate electronic transformer supplies 24 V power to the system. The system monitors STEL as well as TWA levels of CO<sub>2</sub>. The system also provides visible indication of CO<sub>2</sub> levels and temperature in the area where the remote sensor is located. The CO<sub>2</sub> Sensor performs a self-calibration at regular intervals ensuring calibration under normal circumstances. This eliminates the need of manual service calibration in most normal environments.

When installed properly, the CO<sub>2</sub> Safety System will continuously monitor the CO<sub>2</sub> concentration and temperature wherever a sensor unit is located. A green light emitting diode (LED) indicates normal safe conditions. If ambient conditions at the sensor unit reach a CO<sub>2</sub> concentration level of 1.5% (preset low alarm), the unit will emit an intermittent audible tone and the «low alarm» red LED will blink. A remote indication can be done with the two separate outputs, for example Horn/Strobes.

## APPROVALS

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, LNE Règle de certification NF 128 rev 12 Nov 2007 (§2.1.2.4.3.) for the S8 CO<sub>2</sub> Sensor Module. UL Certified. DIN6653-2:2004-03.

In the United States, the Mk9 system is in compliance with International Fire Code (IFC) 2015 Edition Section 5307.5.2.2, CGA G-6.5 2013, NFPA 55 2013 Edition 13.2.2 and NBIC Part 1 Supplement 3 S 3.4.

In compliance with EU Commission Directive 2006/15/EC of 7 Feb 2006 as well as OSHA – PEL (Permissible Exposure Limit) of TWA for CO<sub>2</sub>.

## ORDERING EXAMPLE

Description	Item code
CO2 Sensor Mk9 without cable	1134