

# CO2 Mk90 Sensor KIT (2119)

with amber Horn/Strobe, for LogiCO2 Safety Systems



Mk90 in no alarm mode



Mk90 in alarm mode

## TECHNICAL DATA

<b>Power supply:</b>	12-24V DC
<b>Power consumption:</b>	117 mA peak
<b>Communication:</b>	RS485 Modbus
<b>Automatic calibration:</b>	Several times a year

For further data see separate data sheets for the specific components.

## FUNCTION

The Mk90 is a CO2 monitor with integrated sound and light Alarm indication, designed to measure CO2 concentration in a confined space environment. It provides an alarm in the event that a CO2 level considered unhealthy/dangerous is reached, in accordance with existing safety codes, in the area being monitored.

The CO2 Sensor KIT is a precision instrument comprising one Sensor Unit and one Horn/Strobe. The CO2 Sensor KIT is an add-on sensor for an existing Safety System and it is pre-set with the address: ID2. The CO2 Sensor KIT receives it's power from the existing Safety System. The Safety Systems Central Unit must be set to receive measuring values from two sensors. See section "DIP-switch settings, Number of connected sensors" in the CO2 Safety System's User's Manual.

Installed properly, the Mk90 will continuously monitor the CO2 concentration that it is exposed to. A light emitting diode (LED) indicates that the Mk90 is running properly. The Mk90 performs a self-calibration at regular intervals insuring calibration under normal circumstances. This eliminates the need of manual calibration in a normal environment. The sensor uses infrared analysis for detecting CO2.

## 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 CO2 Sensor Module. UL Certified. DIN6653-2:2015-06.

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 CO2.

## ORDERING EXAMPLE

Description	Item code
CO2 Mk90 Sensor kit	2119

## CO2 Mk90 Sensor kit consists of:

- CO2 Sensor Mk90
- Cable red 10m
- Cable blue 5m
- Horn/Strobe LED amber with 1m cable
- RJ45 1-1 split
- RJ45 1-4 split
- Bag with 6 screws and plug
- Sign Sensor
- Sign Horn/strobe
- Installation manual Mk9/Mk90
- Quick-guide Mk9/Mk90