CO2 MK9 DETECTOR SET 4 A
CO2 Safety System SET 4 A with amber Horn/Strobe

CE

TECHNICAL DATA

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

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

ORDERING EXAMPLE

Description	Item code
CO2 Mk9 Detector SET 4 A	2049

CO2 Mk9 Detector SET 4 A consists of:

CO2 Central Unit Mk9

Cable red 5m

CO2 Sensor Mk9

Cable red 10m

Cable blue 5m

Horn/Strobe LED amber with 1m cable

RJ45 1-1 split

RJ45 1-2 split

Transformer 1A

Plug-UL for transformer

Plug-CE for transformer

Plug-AU for transformer

Plug-UK for transformer

Plug-lock

Bag with 6 screws and plug

Sign CO2 Safety System Mk9

Sign Horn/strobe Mk9/10

Installation manual Mk9

Quick-guide Mk9

FUNCTION

The Carbon Dioxide (CO2) Safety System is designed to measure CO2 concentration in a confined space environment. It provides an alarm in the event that a CO2 level considered unhealthy/dangerous in accordance with existing safety codes, in the area being monitored.

The basic CO2 Safety System is a precision instrument comprising one central unit (with a digital display), one (up to eight) sensor unit, one horn/strobe. A separate electronic transformer supplies power to the system. The sensor unit uses infrared analysis for detecting CO2. The System monitors STEL as well as TWA levels of CO2. The system also provides visible indication of CO2 levels and temperature in the area where the remote sensor is located. It is displayed on a screen of the Central Unit in most languages. Explaining what to do in different Alarm situations. The CO2 Safety System performs a self-calibration at regular intervals insuring calibration under normal circumstances. This eliminates the need of manual service calibration in a normal enviroment.

When installed properly, the CO2 Safety System will continuously monitor the CO2 concentration and temperature wherever a sensor unit is located. A green light emitting diode (LED) on the central unit indicates normal safe conditions.
If ambient conditions at the CO2 Sensor reach a CO2 concentration level of 1.5% (preset low alarm), the central unit will emit an intermittent audible tone and the « low alarm » red LED will blink. A remote Horn/Strobe will flash. This will also happen if the TWA for 8 hours also surpasses 5000 ppm. The difference can be acknowledged on the display.
If ambient conditions at the CO2 Sensor reach a CO2 concentration level of 3.0% (preset high alarm), the central unit will emit a constant audible tone and the « high alarm » red LED lights. A remote Horn/Strobe will flash and sound.
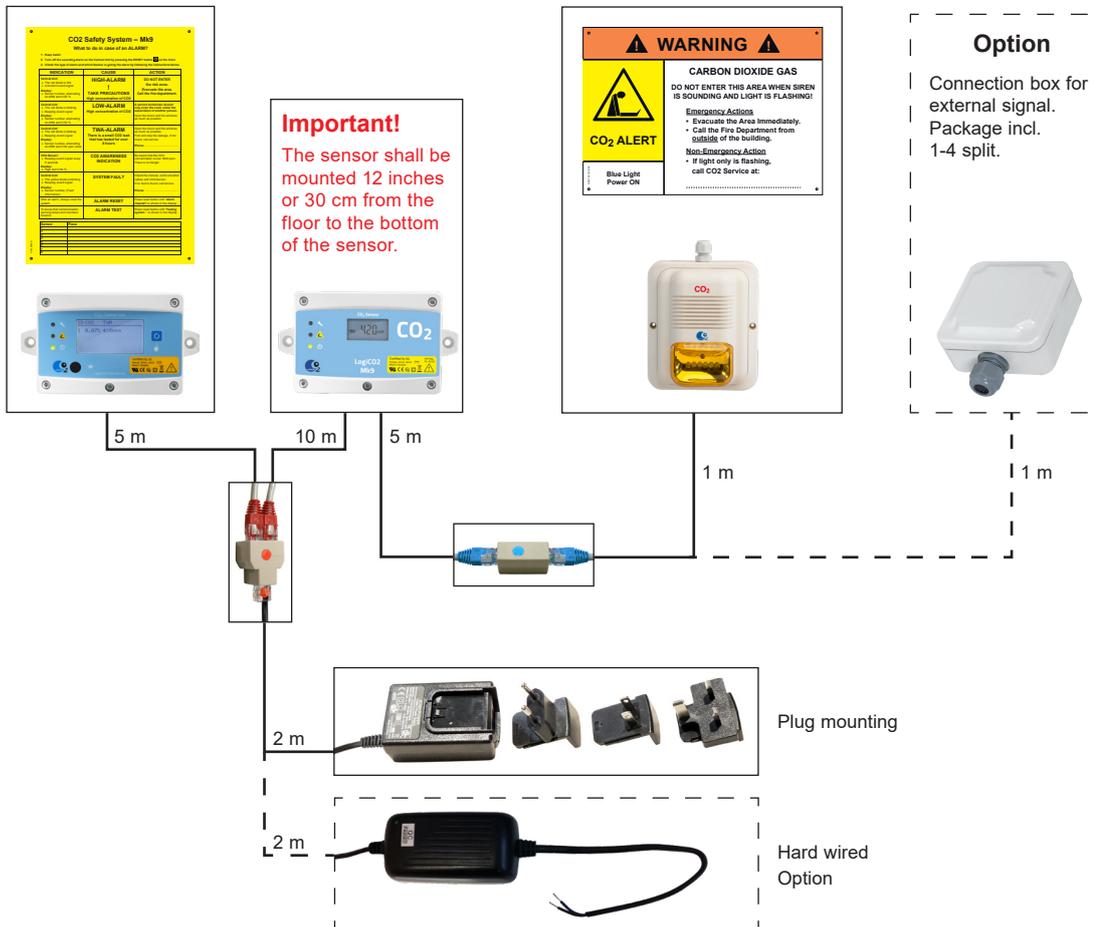
APPROVALS

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. DIN6653-2:2004-03.
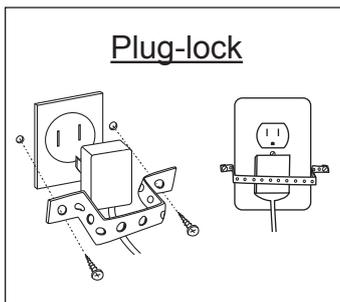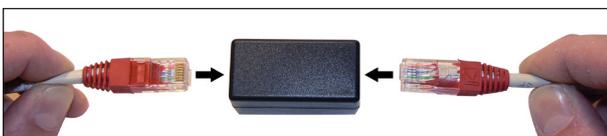
In the United States, the Mk9 system is in compliance with International Fire Code (IFC) 2015 Edition Section 5307.5.2.2, CGA G-6.5 2013, NFPA 55 2013 Edition 13.2.2 and NBIC Part 1 Supplement 3 S 3.4.

In compliance with EU Commission Directive 2006/15/EC of 7 Feb 2006 as well as OSHA – PEL (Permissible Exposure Limit) of TWA for CO2.

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Connection diagram

Important!
The sensor shall be mounted 12 inches or 30 cm from the floor to the bottom of the sensor.

⚠ **WARNING** ⚠

CARBON DIOXIDE GAS

DO NOT ENTER THIS AREA WHEN SIREN IS SOUNDING AND LIGHT IS FLASHING!

CO₂ ALERT

Emergency Actions
- Evacuate the Area Immediately.
- Call the Fire Department from **outside** of the building.

Non-Emergency Action
- If light only is flashing, call CO2 Service at:

Blue Light Power ON

Option
Connection box for external signal. Package incl. 1-4 split.

5 m   10 m   5 m

1 m

1 m

2 m   Plug mounting

2 m   Hard wired Option

CABLE EXTENSION CONNECTOR

Plug-lock

Cut off the prolongations of the lock-release on the RJ45 connectors to secure unauthorized disconnection of the CO2 Safety System.

Use a small screwdriver to disconnect the RJ45 plugs.