

# Installation Instruction

## 0473 SMB and shut off valve

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### ENGLISH

**Safety mode box with shut off valve for CO2 Safety System.**

#### Important!

Retain this instruction manual for future reference: Please read these instructions carefully prior to start-up and use. Failure to follow any of these instructions could void product warranties. LogiCO2 assumes no responsibility for claims arising out of improper or careless use or handling of it's products.

### Technical specifications for SMB

<b>Power supply:</b>	Via CO2 Sensor
<b>Relays:</b>	1A/24V AC/DC
<b>Material:</b>	PC/ABS
<b>Operating pressure:</b>	0,15 to 30 bar / 2,2 to 435 Psi
<b>Bursting pressure:</b>	>150 bar / 2 175 Psi
<b>Treaded connection:</b>	1/4" -18NPT
<b>Dimensions (WxHxD):</b>	78x78x37 mm / 3"x3"x1.5"
<b>Ingress protection:</b>	IP55

### Function

Safety mode box (SMB) with shut off valve is an accessory for the Mk9 and Mk90 CO2 Safety System that shuts off the CO2 gas distribution in case of a leakage. It consists of a magnetic valve, electronics box and cabling. The Shut off valve is designed for usage of CO2 with a pressure of 0,15 to 30 bar or 2,2 to 435 Psi.

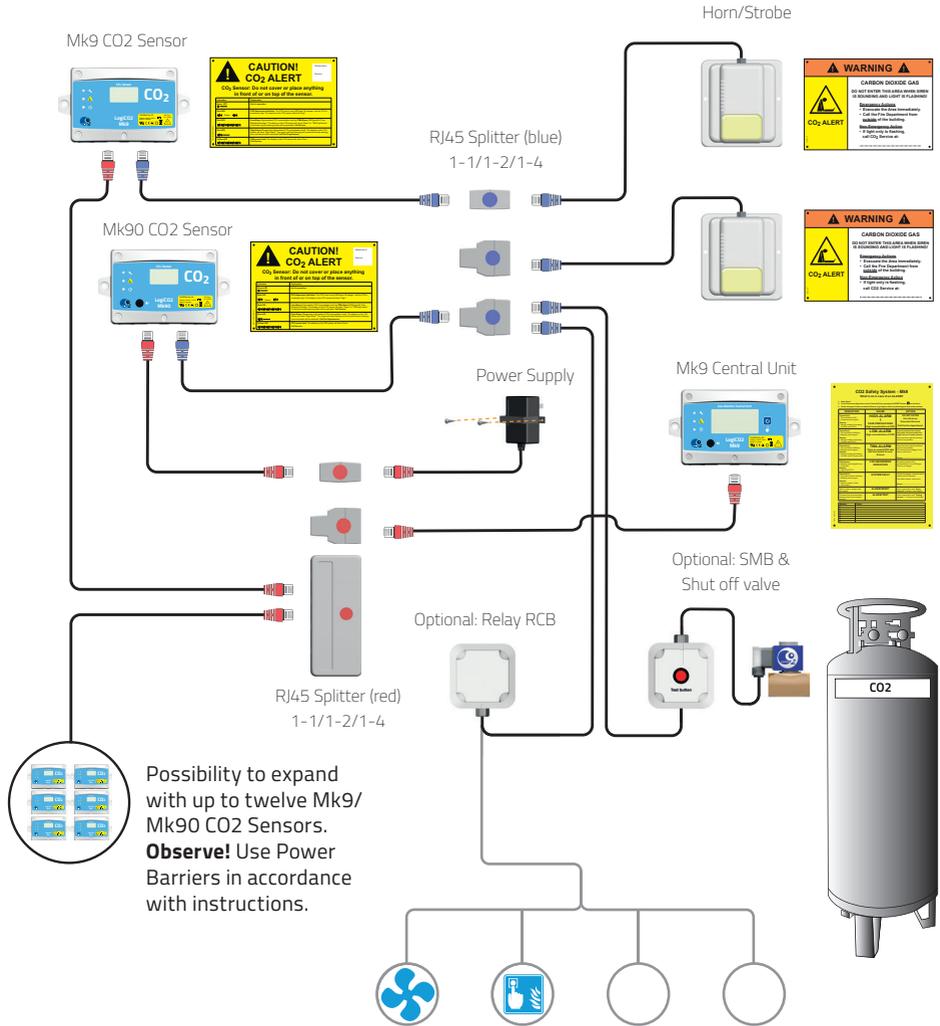
SMB has a 1 meter Cat5 cable from the electronics box, with a blue RJ45 connector that is plugged in to the blue alarm signalling output cable side from either the Mk9 or Mk90 CO2 sensors. When the CO2 sensor indicates a high CO2 concentration, the magnetic valve will shut off the CO2 gas distribution. The valve is fail-safe (shuts off at power loss).

The magnetic valve should be installed as early as possible in the CO2 gas distribution chain (close to the CO2 tank) in order to avoid possible CO2 leakage before the safety valve.

Install the electronics box in a suitable place where it is mechanically protected. Remove the cover by turning it counterclockwise 1/8 turn to access the mounting screw holes.

# Installation

The connection diagram below shows an example of how the SMB with shut off valve can be installed to a CO2 Safety System (Mk9 and Mk90).



## Annual function control of the safety valve

To test the safety valve, make sure that the red diode on the valve is on, indicating that the valve is powered on and open.

Test the opening and closing of the valve by pressing the red test button on the SMB connection box. The red diode on the valve should turn off and you should hear a clear clicking sound.



## Annual function and installation check of the SMB and shut off valve

Checklist SMB and shut off valve	YES	NO
Is the SMB shut off valve installed on the downside from the emergency shut off valve?		
Is the red diode on the shut off valve ON?		
Does the red diode on the shut off valve turn on and off when the red test button is pressed?		
Does the valve make a clicking sound when the red test button is pressed?		



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