

Installation Instruction

0474 SMB and shut off valve with filter



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 its products.

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.

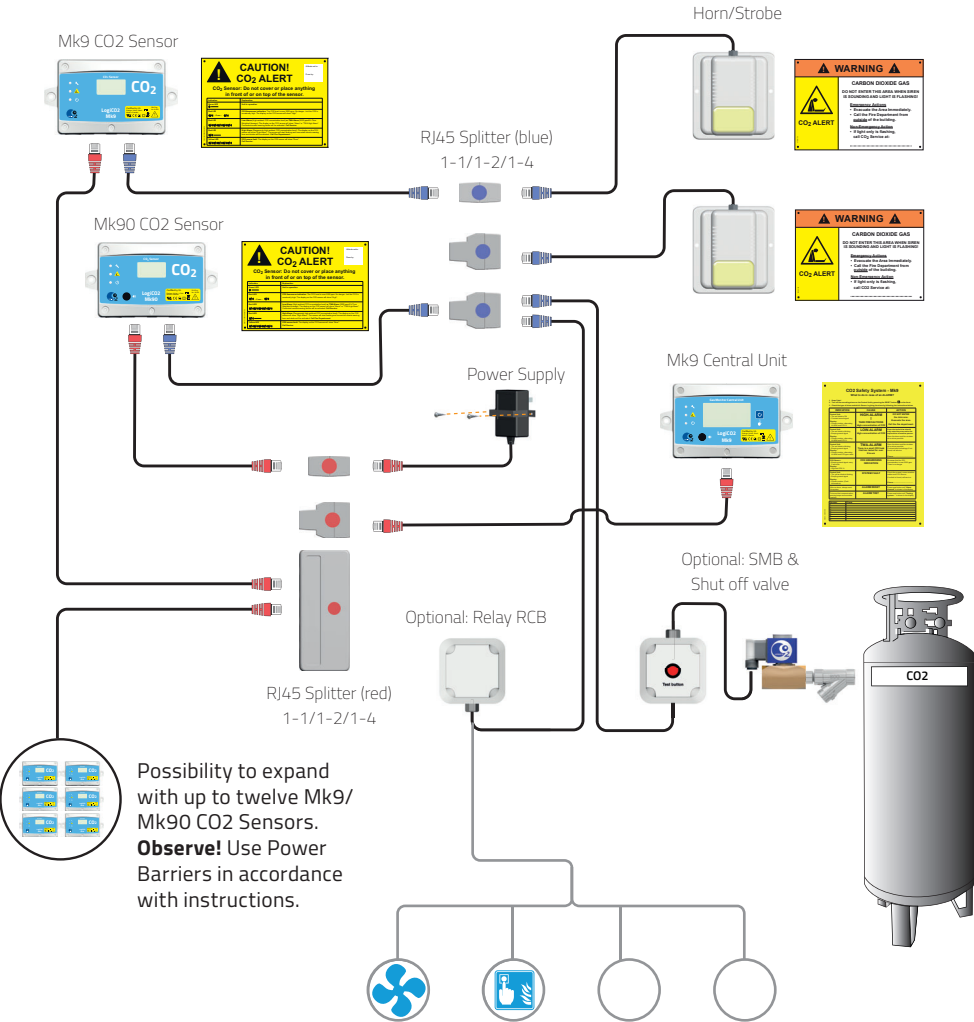
Install the electronics box in a suitable place where it is mechanically protected. Remove the cover by turning it counterclockwise 1/8 turn to access the mounting screw holes.

Technical specifications for SMB

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

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

Instruction on how to clean the filter, if the SMB shut off valve is fitted with a filter:

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.

Please observe that the flow of CO2 must be turned off manually, by closing the emergency shut off valve – and verify that there is no gas pressure in the system. This is very important since you are about to open the system to clean the filter.

Any debris should be caught inside the filter. By using a socket wrench, carefully remove the filter from the valve and clean it.



After cleaning, make sure that the filter gasket is in place and mount the filter again firmly. Carefully open the emergency shut off valve to allow the flow of CO2 again.

Annual function and installation check of the SMB and shut off valve with filter

Checklist SMB and shut off valve with filter	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?		
If the SMB shut off valve is fitted with a filter, has the filter been cleaned?		



SMB and shut off valve installed with filter



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