

SMB and safety valve Add-on KIT (0476)

Safe Mode Box for LogiCO2 CO2 Safety Systems



TECHNICAL DATA

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
Threaded connection:	1/4" -18NPT
Dimensions (WxHxD):	78x78x37 mm / 3"x3"x1.5"
Ingress protection:	IP55

The remote connection box is delivered with one 1 meter cable and one RJ45 1-4 splitter.



FUNCTION

Safety mode box (SMB) with safety 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 Safety 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).

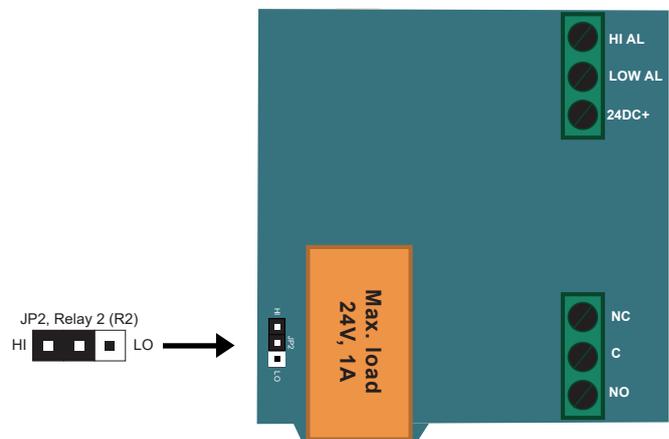
The magnetic valve should be installed as early as possible in the CO2 gas distribution chain (close to the CO2 tank) in order to avoid possible CO2 leakage before the safety valve.

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.

The SMB has a red lamp indicating open valve. When the lamp is off the fail-safe valve is closed.

Factory alarm settings

The SMB is set to close the distribution of CO2 in case of a High Alarm. The jumper settings can be changed to close the distribution of CO2 in case of a Low alarm/Pre alarm.



Hi alarm/Low alarm connectors Factory settings:
JP2 High alarm

ORDERING EXAMPLE

Item code	Description
0476	SMB and safety off valve, 1 m cable

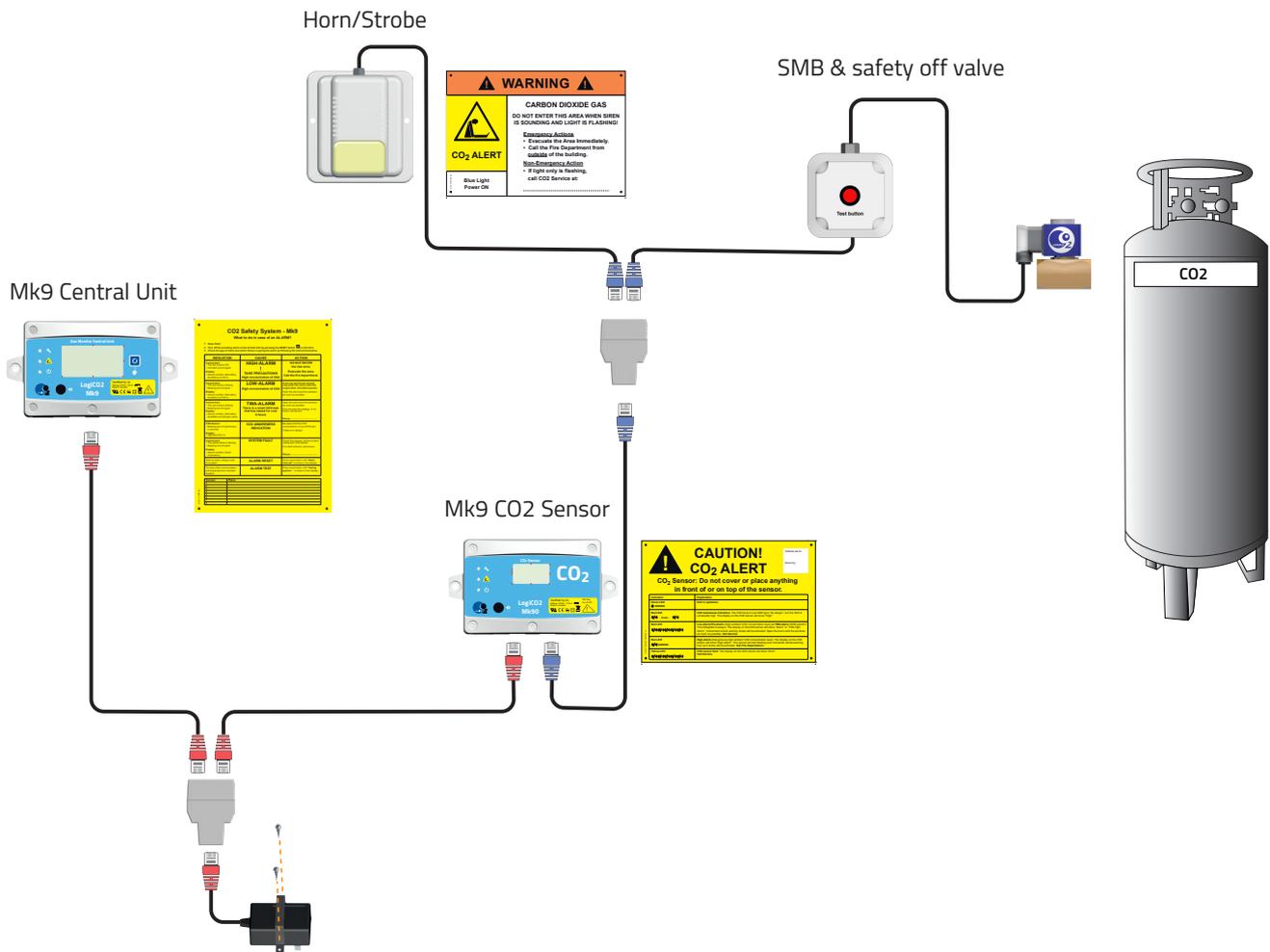
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INSTALLATION

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



ANNUAL FUNCTION CONTROL

Yearly function control is recommended.