ZCO

2-4 ZONES CO CONTROL PANEL

cofem

Automatic control panel COsensor addressable certified UNE 23300

Addressable COsensor control panel for carbon monoxide (CO) and dioxide nitrogen (NO_2) diffusion sensors designed with EN 50545-1 and UNE 23300 certified.

It has the following models ZafirCO2 (Ref. ZCO2), ZafirCO3 (Ref. ZCO3) and ZafirCO4 (Ref. ZCO4). They correspond with 2, 3 or 4 zones and up to 25 CO and/or 25 NO_2 sensors by zone. These models have DVB version (Double Ventilation and Batteries).

The COsensor ZafirCO control panel allows setting the activation concentration for ventilation level 1, 2 and alarm, as well as the delays for the activation and delays for the stop of these levels/alarm.

It has independent dry contact outputs per zone for each level of ventilation and alarm, as well as general fault output and auxiliary supply 30 Vdc.

The control panel has a maintenance mode for easy testing the operation of sensors by watching the flashing LEDs of the sensors when they face to the test gas.

The control panel can identify all sensors at the installation by their programming number. The auto configuration feature of the control panel will automatically detect all sensors and display a summary in the display. Confirming this information, control panel goes directly into "work" mode.

The philosophy and operation mode of the equipment is designed according to European standard EN 50545-1, using diffusion sensors and factory calibration for operation during the operational life of the sensors, and UNE 23300 certified.

FEATURES

- Control panel up to 4 ventilation zones with diffusion sensors brand COsensor model SCO (CO sensor) and SDN (NO_2 sensor).
- Dry contact output (COM/NO) Ventilation 1, Ventilation 2 (DVB models only) and alarm.
- Fault dry contact output (COM/NO/NC).
- Auxiliary 30 Vdc 1A power output.
- Concentration measures averaged according to EN 50545-1 up to 60 minutes.
- Ventilation level 1, ventilation level 2 (models DVB) and alarm selectable from 5 to 300 ppm of CO and from 0,1 to 30 ppm of NO_2.

- Delay time for activation and delay time to stop of ventilation 1 and ventilation 2 (models DVB), selectable between 0 and 10 minutes.
- Delay time for activation and delay time to stop of the alarm selectable between 0 and 5 minutes.
- Maintenance mode to check operation of sensors.
- System with auto configuration functionality.
- Space for batteries 2 x 12 Vdc 7 Ah (DVB models only).
- Backlit LCD Display 4 lines and 40 characters.
- Dimensions: 424 x 330 x 160 mm (with cover).
- Designed according to European standard EN 50545-1.
- UNE 23300 Certified.

TECHNICAL FEATURES

Supply voltage	110/230Vac 50/60Hz	Max. current per zone	150mA / 26 a 32Vdc
Max. consumption	70VA at 230V/AC	Dry contact ventilation	230Vac / 30Vdc 1A
Control panel power supply	2,5A	Alarm dry contact	230Vac / 30Vdc 1A
Batteries (only DVB model)	2 x 12V 7Ah SLA	Fault dry contact	230Vac / 30Vdc 1A
Supply fuse	4A	Environmental conditions	-10°C +50°C
Battery charger	500mA 27V/DC 20°C	Dimensions	424x330x160mm (with cover)
Sensors per zone	25 CO and/or 25 NO_2	Weight (without batteries)	7kg
IP protection	IP30	Standard	EN 50545-1 y UNE 23300
		Max. current 30V output	1A

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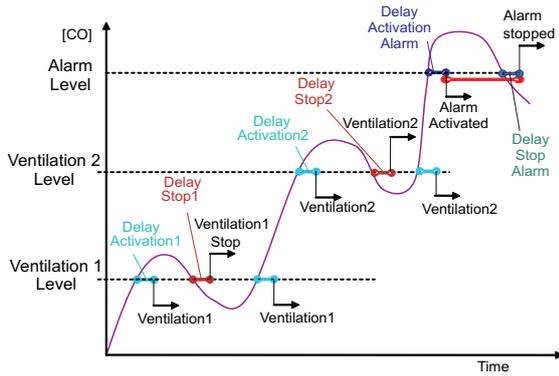
Parameter	Value	Margin
Ventilation 1 level	50 ppm (CO)	5-300 ppm (CO)
	1 ppm (NO$_2$)	0,1-30 ppm (NO$_2$)
Vent. 1 activation delay	4 min	0-10 min
Vent. 1 stop delay	4 min	0-10 min
Vent. 2 level	100 ppm (CO)	Vent1-300 ppm (CO)
	3 ppm (NO$_2$)	Vent1-30 ppm
Vent. 2 activation delay	4 min	0-10 min
Vent. 2 stop delay	4 min	0-10 min
Alarm level	200 ppm (CO)	Vent1/vent2-300 ppm (CO)
	5 ppm (NO$_2$)	Vent1/vent2-30 ppm
Alarm activation delay	1 min	0-5 min
Alarm stop delay	1 min	0-5 min
Concentration average	0 min (instantaneous)	0-60 min

NOTE: Don't have in consideration ventilation 2 in models of only 1 ventilation

Diagram of ventilation operation
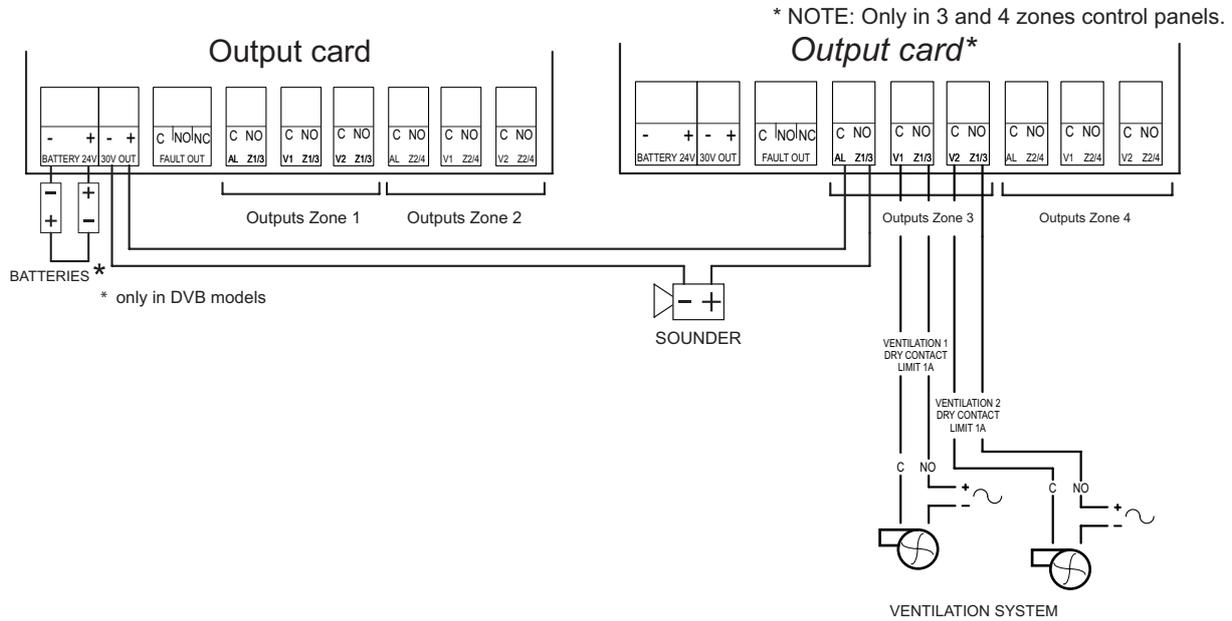
Operation scheme of DVB control panels
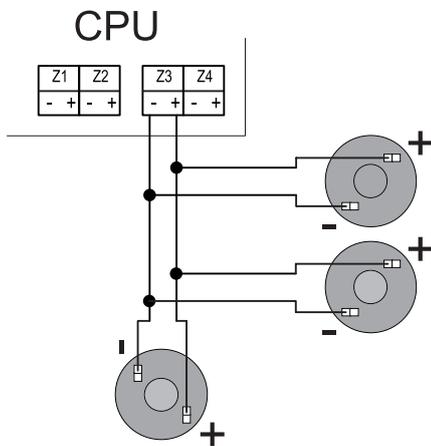
NOTE: Scheme applicable only to zone 3.
The other zones are connected in the same way.
Control panels with other capacities should not have some connectors.

Connection scheme for 4 zones DVB control panel

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