# CCO-1 carbon monoxide detection control panel

## Certified System UNE 23300 (Password CDM 8003)

The CCO-1 Control Panel consists of electronic equipment capable of instantaneously detecting the presence of Carbon Monoxide (CO) in locations such as parking structures, workshops, tunnels, etc, by measuring the exact concentration expressed in parts per million. This system can also activate the ventilation system or trigger an alarm, depending on the level of CO concentration detected.

The components are integrated in a metallic box 280 x 225 x 105 mm, with a metallic door with front adhesive containing the light/acoustic signals, and control buttons.

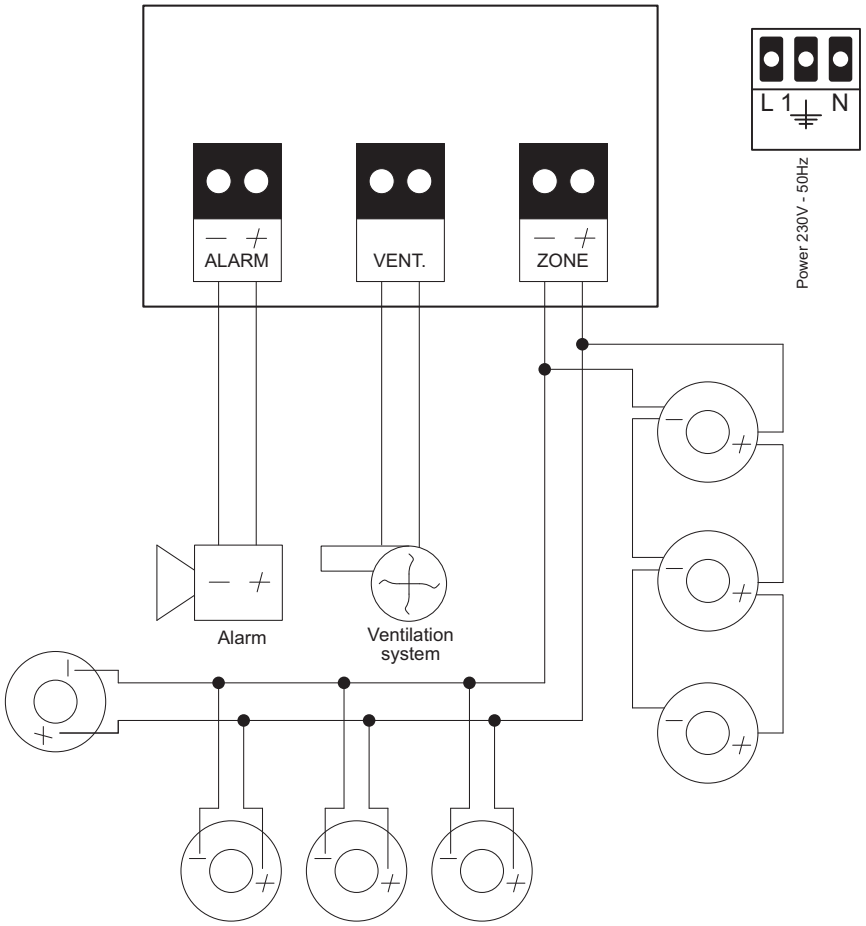
In the one zone COsensor CCO-1 control panel, a 2/wire line forms the detection zone and the CO concentrations are read. The COsensor CCO-1 control panel is made in two versions: the CCO-1/10 control panel can have up to 10 detectors per zone and the CCO-1/15 control panel can have up to 15 detectors per zone.

The control panel can be configured to activate or deactivate a ventilation system manually as well as delay ventilation.

The interaction with the user is achieved through a LCD display consisting of three digits, and a four-key keypad.

The complete system meets standard UNE 23300 concerning *Control and Measurement Systems of Carbon Monoxide Detection.*

# Zone


L 1
N
Power 230V - 50Hz
ALARM
VENT.
ZONE
Alarm
Ventilation
system

# *CCO1-4 Carbon Monoxide detection control panel*

## Certified System UNE 23300 (Password CDM 8003)

The CCO1-4 Control Panel consists of electronic equipment capable of instantaneously detecting the presence of Carbon Monoxide (CO) in locations such as parking structures, workshops, tunnels, etc, by measuring the exact concentration expressed in parts per million. This system can also activate the ventilation system or trigger an alarm, depending on the level of CO concentration detected.

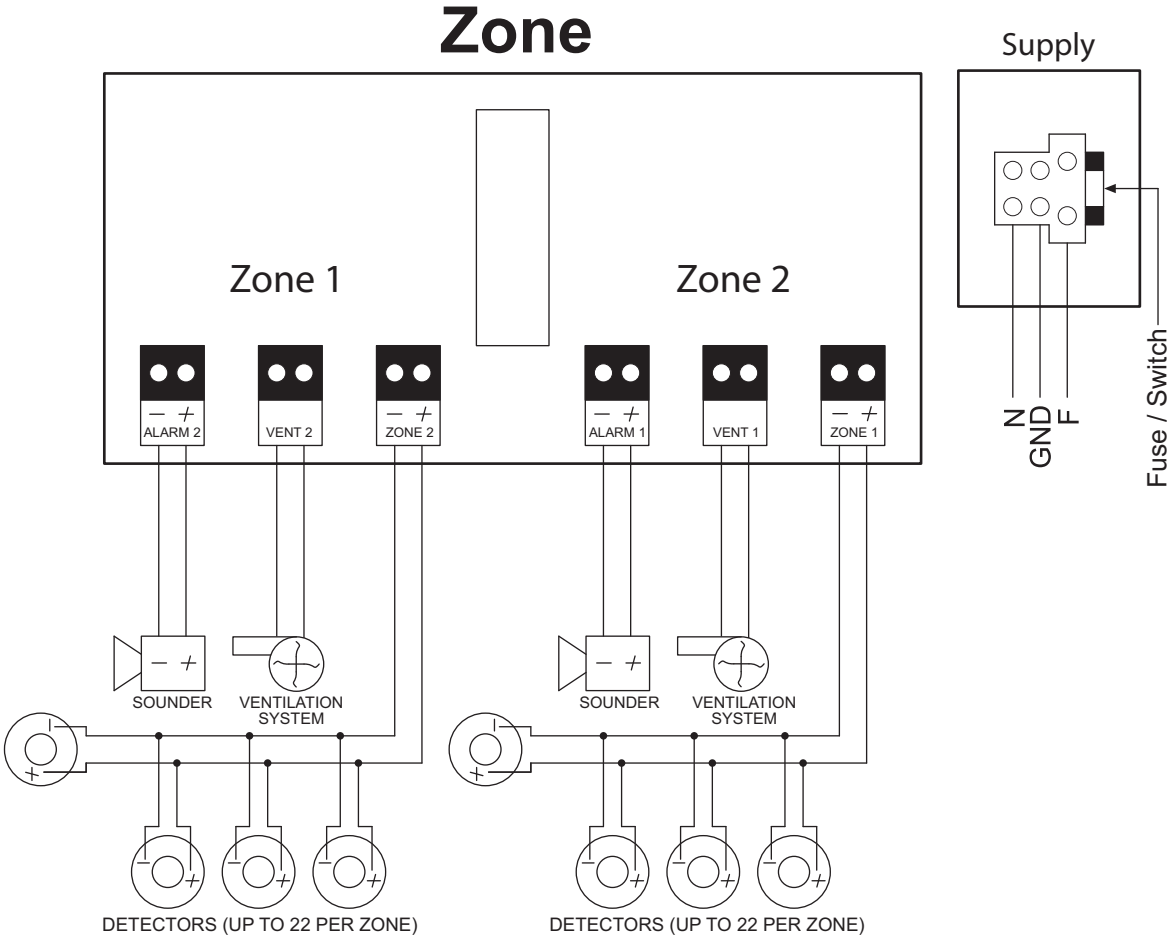
The components are integrated in a metallic box 418 x 324 x 120 mm, with a metallic door with front adhesive containing the light/acoustic signals, and control buttons.

COsensor CCO1-4 panels permits up to four zones/22 detectors per zone and each detection zone consist of a two wire line through which the detectors are supplied and the CO concentration is read.

The control panel can be configured to activate or deactivate a ventilation system manually as well as delay ventilation.

The interaction with the user is made through a liquid cristal display and a keypad with four keys.

The complete system meets standard UNE 23300 concerning to *Control and Measurement Systems of Carbon Monoxide Detection.*


Zone
Supply
Zone 1
Zone 2
ALARM 2
VENT 2
ZONE 2
ALARM 1
VENT 1
ZONE 1
N
GND
F
Fuse / Switch
SOUNDER
VENTILATION SYSTEM
SOUNDER
VENTILATION SYSTEM
DETECTORS (UP TO 22 PER ZONE)
DETECTORS (UP TO 22 PER ZONE)

# DCO carbon monoxide detector

## Certified System UNE 23300 (Password CDM 8003)

The detector is an element capable of measuring the concentration of Carbon Monoxide (CO) and transmitting the reading to the control panel for processing.

In the COSensor Carbon Monoxide Detection System, the detectors are supplied and communicate with the control panel through a two-wire line. Each operation cycle of the station lasts approximately 1 minute. During 99,7% of this time, the control panel simply supplies the detectors, and during the last 200 msec. of each cycle, the CO concentration reading is performed.

- The recommended area of coverage is 200m$^2$.
- Caution: DCO detectors *Have Polarity*.
- It is recommended to install DCO with a height between 1,5 to 2 m.

It is recommended the use of a 1,5mm$^2$ minimum section wire and, in a lineal distribution of detectors, the maximum length is 400m per zone.

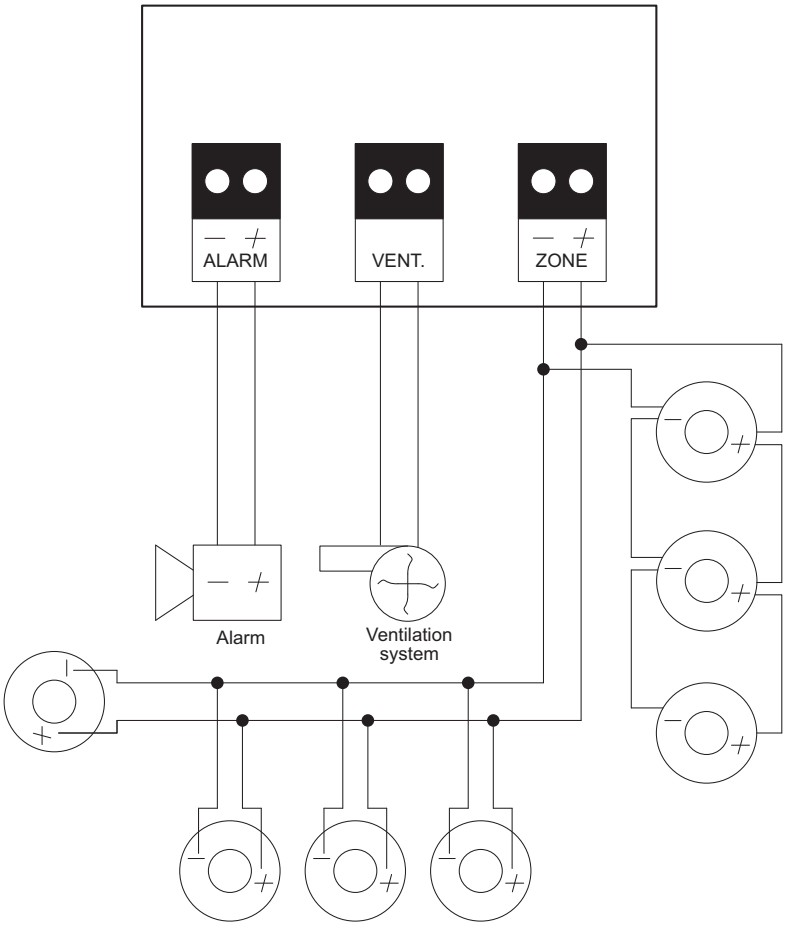
DCO detectors use a two-colour LED to indicate status:

- GREEN LIGHT: Indicates the correct working order of CO Sensor.
- RED LIGHT: Indicates concentration of CO above 50 ppm.

According to UNE 23300 it is recommended to change the sensor every 5 years.

The system meets standard UNE 23300 refering to *Control and Measurement Systems of Carbon Monoxide Detection*.

# Zone




TECHNICAL FEATURES

| | |
|---|---|
| Supply voltage | 13 - 28V |
| Reset voltage | < 12,5V |
| Maximum standby current | High period: 45 mA |
| | Low period: 17 mA |
| Maximum current in alarm | High period: 58 mA |
| | Low period: 30 mA |
| Dimensions | Diameter: 115 mm |
| | High: 75 mm |