

# MMD-509

CO detection zone expansion module

### **Description**

The MMD-500 is a CO module for expanding the system. Each module allows connection of up to 32 detectors connected to 2 wires without polarity, with a maximum distance of 1 Km. The module has three programmable level relays, extraction 1 and extraction 2 and alarm.

Each module includes a display showing the CO concentration of the zones. Each of them can control the air renewal group manually or automatically. The automatic control lets you work in an advanced mode in which the overall system's power consumption is reduced. In order to obtain this reduction, the module performs algorithms to minimize the air renewal output activations by taking the individual measurement of each detector in the zone.

Each zone module lets you connect up to 32 DMD-500 or DMDP-500 carbon monoxide detectors. The connection to the module is done through 2 wires, the detectors may be distributed along 2,000 meters in length and each detector covers 200 m2; this value is defined as the maximum surface in current legislation.

#### **Features**

- UNE 23300:1984 approved
- LOM 08MOGA3532 certificate
- Modular and expandable system
- 1, 2 and 3 zones per panel
  Concentration indication part
- Concentration indication per zone
- 2 extraction relay outputs per zone
- <sup>o</sup> 1 alarm relay output per zone
- Up to 32 detectors per zone
- Two-wire connection without polarity
- Operating mode for low power consumption
- Control option per speed regulator
- Multi-language keyboard



## **Applications**

Its main application is to activate ventilation systems in car parks or garages, either in a community of neighbors or in large areas.

If you breathe, even in moderate amounts, carbon monoxide can cause death from poisoning in a few minutes, as it sistitutes to oxygen in the blood's hemoglobin.

The air renewal in those spaces where there is a high concentration of combustion vehicles is essential to detect the concentration of carbon monoxide in order not to have an intoxication with this gas.

## **Technical features**

Expansion module	
Zone module: Measurement range: Measurement units: Module connections: Zone connections: Maximum zone distance: Maximum detectors per zone: Extraction output level 1: Extraction output level 2: Alarm output : Extraction levels: Alarm level: Operating modes:	From 0 to 300 ppm of CO ppm, in 3 digits Removable terminal blocks Ø2,5 mm <sup>2</sup> 2 wires 2 km 1,5 mm <sup>2</sup> wire 32 detectors Relay (C, NC, NO) Relay (C, NC, NO) Relay (C, NC, NO) Selectable from 0 to 299 ppm Selectable from 0 to 299 ppm Automatic (maximum CO concentration) Automatic (average CO concentration) Manual extraction always off (OFF) Manual extraction always on (ON)

