



# CO CERCO 300 EQ CARBON MONOXIDE AND NITROGEN DIOXIDE DETECTION SYSTEM



The CERCO 300 Carbon Monoxide (CO) detection system has been developed meeting the UNE 23300-1984 standard to provide a reliable control for toxic hazard, in car parkings and garages, and for ventilation fan operation.

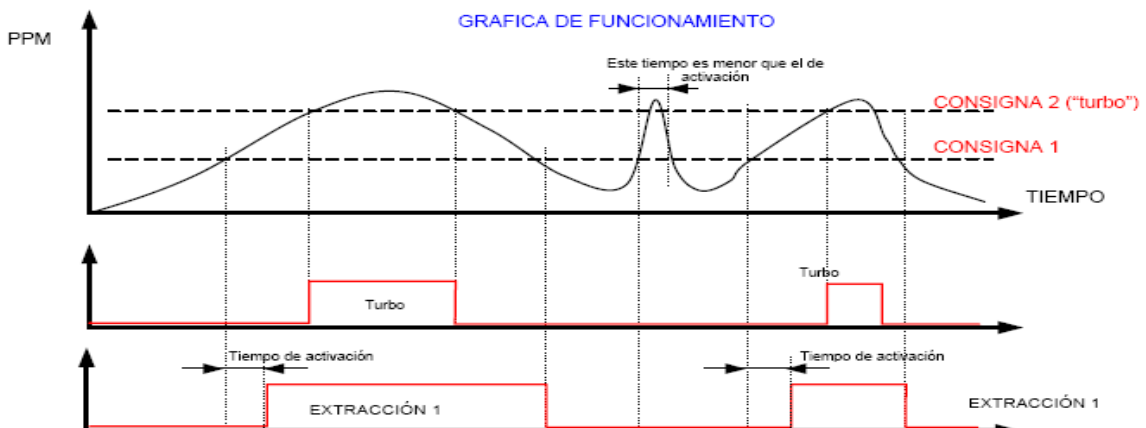
Advanced features like the use of electrochemical sensors, hi-tech data transmission, and easy of installation allows an easy commission, use and maintenance.

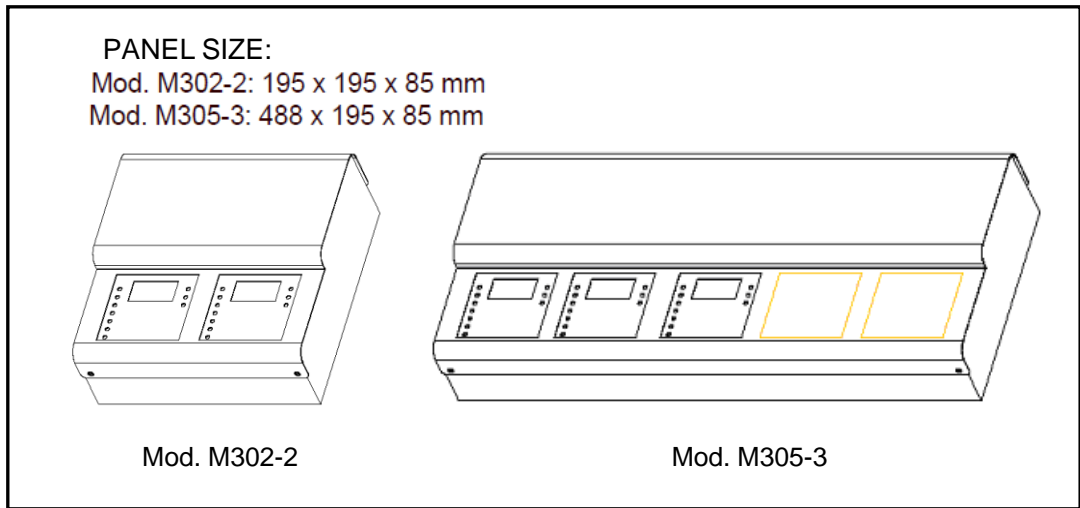
Special features like timing and different alarm levels can be programmed in order to obtain the maximum of security and energy saving.



## FEATURES

- CO and /or NO<sub>2</sub> simultaneous detection by electrochemical detectors integrated in the same detection line
- Standard electrochemical sensors for maximum accuracy.
- Excellent stability and long term operation (Up to 10 years for CO detectors)
- Up to 16 detectors per zone , individually addressed in alarm or fault condition.
- Only two 1,5 mm wires required in non polarized, free installation architecture.
- Two different sizes of panels: M 302 with 1 y 2 zones modules  
M 305 with 2, 3, 4 & 5 zones modules
- 3 different operating modes: Automatic, manual or only alarm level.
- 3 different programmable levels: Ventilation, turbo and alarm, with 3 independent relay outputs
- Programmable starting delay.

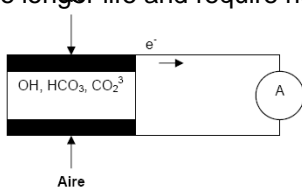




**Principle of operation of the electrochemical cell:**

The electrochemical cell consists of two electrodes separated by an alkaline electrolytic liquid electrodes. The gas reacts with special electrodes and electrolyte through a permeable membrane producing an electric current that is linearly proportional to the amount of gas detected and measured by the system.

This type of detection provides greater accuracy and stability than traditional systems of semiconductor and absence of interference from other gases, temperature or humidity. They have longer life and require no filters, which results in less maintenance.



**TECHNICAL SPECIFICATIONS**

Measuring range:	0 to 300 ppm
Maximum measuring time response	25 secs.
Detector alarm indication:	Red LED continuous lighting
Normal operating indication:	Light flashing every 25 secs.
Operating temperature	-5°C to 55°C
Storing temperature:	--5°C to 55°C
Maximum humidity	95% w/o condensation
Detection accuracy (típical)	±1%
Expected sensor life for CO ME300D detector	10 Years (7 years for detectors before 09/2015)
Display resolution	1 ppm



INSTALLER / DISTRIBUTOR
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