

4-ZONE CONTROLLER FOR MONOXIDE ANALYSIS AND CONTROL AE/CO-Z4M

Description

The control unit bases its operation on the H8 / 534ROMLESS microcontroller and has been designed according to the UNE 23-300-84 standard "Carbon monoxide concentration measurement and detection equipment".

The 4-zone control panel, AE / CO-Z4M, can also control 62 detectors, 31 per channel, but in this case they can be configured in 2, 3 or 4 extraction zones.

These centrals are in charge of starting the ventilation when the concentration is higher than the established one, and its disconnection when the monoxide level reaches admissible values.

The control panels have three alarm levels

Level 1: Activates the first ventilation group.

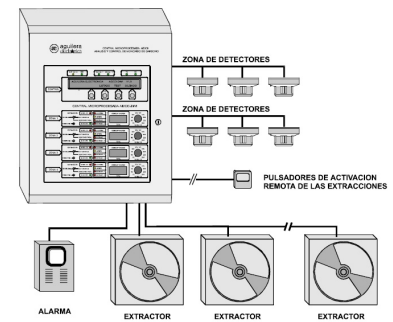
Level 2: Activates the second ventilation group. This second group is used in both automatic extraction and manual extraction.

Alarm level: When the concentration of CO exceeds the limits dangerous for health, it activates a relay to which an acoustic emergency warning can be connected.

Furthermore, the control panels can be instructed to alternate the use of the extractor groups in the zones that have two groups. In this way we avoid disproportionate attrition of the first group in each area.

It also has a remote activation of the group of extractors in each zone. In this way, regardless of the level of CO that we are detecting, we can activate the ventilation groups from a location other than the central one. For example, at the entrance of the garage.

One more feature is the possibility of configuring, independently for each zone, periodic ventilation to renew the air.



TECHNICAL CHARACTERISTICS

Supply voltage:	230 V / 50 Hz.
Power:	200 W.
Auxiliary voltage output:	12 Vdc / 500 mA.
FUSES:	F1 MAINS FUSE 3 A F2 POWER SUPPLY FUSE 1 A F4 / F5 DETECTOR ZONE FUSE: 4 A. F3 12 Vdc 1A OUTPUT FUSE.
CONTROLS:	CO LEVEL switch: Adjust in 10 steps from 25 to 250 p.p.m. Extraction switch: AUTOMATIC-DISCONNECTED-MANUAL. Service switch.
INDICATORS:	ALARM Red FAULT Yellow LEVEL CO Red EXTRACTOR 1 Red EXTRACTOR 2 Red SERVICE Green
OUTPUTS PER ZONE:	EXTRACTOR 1: Voltage free contacts (C - NA) EXTRACTOR 2: Voltage free contacts (C - NO) GENERAL ALARM: Voltage free contacts (C - NA)
DETECTORS AREA:	MAXIMUM NUMBER OF DETECTORS: 31 RECOMMENDED WIRING: Power supply: Two 2.5 mm ² wires. Communications (Minimum section): Two twisted 0.5 mm ² wires. NOTE: It must be checked that the voltage, in the most unfavorable point, does not fall below 21 Vdc between positive and negative. COVERAGE PER DETECTOR: 200 m ² maximum INSTALLATION HEIGHT: From 1.5 to 2 m.