



KM300 Series

Carbon Monoxide Control Panels for Car Parks

General

The KM300 system is designed for applications where concentrations of CO may accumulate and needs to be controlled in order to protect lives. The KM300 series consists of a line of control panels able to accommodate 1, 2, 3 or 4 individually controlled and supervised detection zones, using KM170 or KMD300 CO detectors.

The System

The KM300 may be used in small and large installations. Any zone may cover as much as 4500 m², leaving the 4-zone panel the capability to cover up to 18000 m² of floor space. A zone can supply power to and control up to 15 x KM170 or KMD300 CO detectors via a 3-wire bus using 1.5 mm² cable. Installation of these detectors may be in a single line (Class-B) or as a Class-B line with T-Offs and each device is individually monitored.

Indications & Controls

Every zone is supplied with a 3 x 7 segment display that indicates the current CO reading from that zone. In addition general indicators show the current operational status of that zone with alarm and extraction LEDs indicating when the warning and alarm thresholds are reached. General operation LEDs indicate the current overall system status.

Every zone may be individually controlled. The zone may be turned ON or OFF, placed into test mode or configured without affecting any of the other zones.

Alarm Outputs

Every zone has 3 mains rated potential free relay outputs to control different levels of ventilation or extraction functions:

- 2 x Extraction/ventilation control relays
- 1 x General alarm relay

The operation of these relays is determined by configurable level and mode settings.

Power supply

Every KM300 has a built in 230 VAC power supply. Should battery backup of the system be required, and external 12 VDC power source is supported.



Standard Features

- Elegant design
- From 1 to 4 supervised detection zones
- Easy to install and to use
- Language customisation using language inserts
- Clear and accurate display of CO levels per zone
- Up to 15 detectors per zone
- Fast response times
- Extraction and alarm outputs per zone
- Supervision of all CO detectors and zones
- Using surface mount technology with low current consumption
- Compatible with KM170 and KMD300 CO detectors
- UNE 23300:1984, CE, WEEE and RoHS compliant
- External and internal power supply support

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Specifications

	KM301/KM302	KM303/KM304
Power supply		
Mains supply	230 VAC ±10% 50 Hz	230 VAC ±10% 50 Hz
Power consumption	95 W (max)	95 W (max)
Zone specifications		
Zone input voltage	10 - 20 VDC	10 - 20 VDC
Supply current (max)	1 A	1 A
CO Sensitivity	0 - 300 ppm	0 - 300 ppm
Cable requirement	3 core 1.5 mm ²	3 core 1.5 mm ²
Cable length (max)	350 m	350 m
No. of detectors (max)	15	15
Relay specifications		
No. of relays per zone	3	3
Contact rating	5 A @ 30 VDC or 8 A @ 250 VAC	5 A @ 30 VDC or 8 A @ 250 VAC
Switching power (max)	150 W	150 W
Environmental		
Working temperature	0°C to +40°C	0°C to +40°C
Storage temperature	-10°C to +70°C	-10°C to +70°C
Relative humidity (noncondensing)	10% to 95%	10% to 95%
Physical		
Housing (w x h x d)	297 x 307 x 109 mm	420 x 336 x 118 mm
Weight	3 kg	4.65 kg
Cable entry		
Top	4 x Ø 20 mm	10 x Ø 20 mm

Ordering Information

Part No.	Description
KM301	Carbon Monoxide Control Panel for Car Parks - 1 Zone
KM302	Carbon Monoxide Control Panel for Car Parks - 2 Zones
KM303	Carbon Monoxide Control Panel for Car Parks - 3 Zones
KM304	Carbon Monoxide Control Panel for Car Parks - 4 Zones
KMD300	300 Series Carbon Monoxide (CO) Detector and Base
PM812	Boxed power supply, 12VDC 2A
PM814	Boxed power supply, 12VDC 4A

