



Cerberus® CerGas

## Gas warning system

## CC62

for the control of CO in car parks

- 
- For efficient and economic operation of the ventilation system in car parks
  - System designed to monitor up to 64 addressable precalibrated detectors allocated to a maximum of 4 lines
  - Depending on selected housing up to 2 or 4 lines with a maximum of 16 detectors per line can be configured
  - Digital display of the measured gas concentration for each gas detector
  - Password-protected, user-friendly operation



Cerberus  
Security  
for People  
and Assets

Siemens Building Technologies  
Cerberus Division

## Application

---

Process controlled, modular gas detection system to monitor the concentration of the extremely toxic Carbon Monoxide and to control the ventilation systems in car parks. The system allows an efficient and economic operation of the ventilation system in car parks.

## Design

---

The control unit is incorporated into a spray painted, oven dried, anti-corrosion treated metal cabinet with a removable door with a Perspex window in it. Polycarbonate keyboard with 6 keys. LCD display with 16x2 lines of alphanumeric characters with indication of detector number, group number, gas concentration, maximum gas concentration and manual/automatic ventilation.

The system can store up to 100 events (19 kinds of events) as well as all maximum concentrations, starting from the oldest to the most recent. All events with dates and times can be documented over a printer or PC.

Power supply System equipped with power supply unit 13.8V/6A, voltage stabilisation and current limitation. Depending on the international autonomy standards, up to 2 monitored batteries 12V/7.5Ah can be connected in parallel.

## Calibration

---

Detectors are supplied in a precalibrated state, consequently the detector calibration during system commissioning is not required. However, the programming menu enables the post calibration of installed detectors in the requested revision intervals.

## System configuration

---

System designed to monitor up to 64 addressable precalibrated detectors allocated to a maximum of 4 lines. Depending on selected housing up to 2 or 4 lines with a maximum of 16 detectors per line can be configured.

System integrates four independent relay outputs per line, for ventilation control and one relay output for general alarm and fault. The 4 relay outputs can be allocated to 2 independent groups with 2 ventilation speeds, or 4 independent groups with 1 ventilation speed. The CC62 system permits the user to program a cyclic ventilation, the activation of the ventilation at certain times during a certain period, independently from the gas concentration.

Programming The programming of the activation interval is independent for each group. Except the allocation of the detectors to certain groups, basically the system does not necessarily require any additional programming on site. Nevertheless, all line parameters - ventilation (gas concentration) levels, ventilation speeds, alarm levels, delay times for activation and deactivation of the ventilation, cyclic ventilation and maintenance intervals - are individually programmable, if requested.

System provides 2 programming menus: Service Technician menu to program the values which affect the functioning of the detection/ventilation system, such as alarm and ventilation levels etc. The access is restricted by means of a password. The user menu is restricted to program sequential or maximum level mode, cyclic ventilation times, time periods etc. This menu is freely accessible.

- Automatic system test for line, power supply, batteries, output relays for ventilation and alarm levels.

## Technical data

Line Modules	Power supply	9 - 15VDC
	Maximum consumption	180mA
	Communication to detectors	RS485
	Cabling	2 x 1.5mm <sup>2</sup> + 2 x 0.25mm <sup>2</sup>
	Maximum distance	1000m
	Capacity per line	16 detectors
	Programmable display modes	2 (sequential / maximum)
	Display frequency	2s (sequential mode)
	Display	LCD 16x2 alphanumeric digits with background illumination
Dimensions	101mm x 129mm x 100mm EUROCARD, plug-in	
Relay modules (ventilation outputs)	Power supply	9 - 15VDC
	Maximum consumption	56mA
	Outputs	4 independent outputs. Dry contact 250VAC or 30VDC, max. 2A
	Dimensions	181mm x 27mm x 171mm plug-in
Base plate	Output general alarm	1 dry contact, 250VAC or 30VDC, max. 5A
	Output general fault	1 dry contact, 250VAC or 30VDC, max. 2A
	Output batteries	up to 2 batteries 12VDC / 7.5Ah
	Power supply voltage	240VAC ±10%, protected with a 2A fuse and integrated filter
Dimensions of control units	CC62-XX for max. 32 detectors	370mm x 315mm x 145mm
	CC62-XX for max. 64 detectors	600mm x 315mm x 145mm
Certifications	Certified according to	German regulation VDI 2053, TÜV Rheinland
	CE-Conformity	according to EN 50081, 50082, 60950



CC62 max. 32 detectors



CC62 max. 64 detectors

## Technical data detector DE62-02

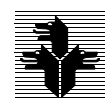


Detector DE62-02

Power supply	9 - 15VDC
Consumption (quiescent)	8mA
Consumption (alarm active)	15mA
Sensor principle	electrochemical
Concentration range	0 - 400ppm
Resolution	±2ppm
Response time $t_{90}$	45s
Sensor lifetime in clear air	3 years
Relative humidity (constant)	15 - 90%
Relative humidity (intermittent)	0 - 99%
Allowed pressure for operation	atmospheric ±10%
Operating temperature	-15°C to +50°C (compensated)
Design	IP65 housing, material MAKROLON
Dimensions	120mm x 80mm x 55mm

## Details for ordering

Type	Part no	Designation	Weight
DE62-02	515003	CO detector complete for CC62, precalibrated	0.270kg
CC62-01	515142	Control unit CC62, for max. 16 detectors, preprogrammed for CH/D-d/e	9.000kg
CC62-02	531809	Control unit CC62, for max. 32 detectors, preprogrammed for CH/D-d/e	11.100kg
CC62-03	531812	Control unit CC62, for max. 48 detectors, preprogrammed for CH/D-d/e	14.000kg
CC62-04	531825	Control unit CC62, for max. 64 detectors, preprogrammed for CH/D-d/e	15.100kg
CC62-05	531993	Control unit CC62, for max. 16 detectors, preprogrammed for CH/D-i/e	9.000kg
CC62-06	532002	Control unit CC62, for max. 32 detectors, preprogrammed for CH/D-i/e	11.100kg
CC62-07	532015	Control unit CC62, for max. 48 detectors, preprogrammed for CH/D-i/e	14.000kg
CC62-08	532028	Control unit CC62, for max. 64 detectors, preprogrammed for CH/D-i/e	15.100kg
CC62-09	532031	Control unit CC62, for max. 16 detectors, preprogrammed for CH/D-f/e	9.000kg
CC62-10	532044	Control unit CC62, for max. 32 detectors, preprogrammed for CH/D-f/e	11.100kg
CC62-11	532057	Control unit CC62, for max. 48 detectors, preprogrammed for CH/D-f/e	14.000kg
CC62-12	532060	Control unit CC62, for max. 64 detectors, preprogrammed for CH/D-f/e	15.100kg
CC62-13	532073	Control unit CC62, for max. 16 detectors, preprogrammed for P/International-e/p	9.000kg
CC62-14	532086	Control unit CC62, for max. 32 detectors, preprogrammed for P/International-e/p	11.100kg
CC62-15	532099	Control unit CC62, for max. 48 detectors, preprogrammed for P/International-e/p	14.000kg
CC62-16	532109	Control unit CC62, for max. 64 detectors, preprogrammed for P/International-e/p	15.100kg



Cerberus  
Security  
for People  
and Assets

© Siemens Building Technologies AG  
Subject to change