



CMD 300C

Technical data

Sensor element	Electrochemical, diffusion
Output	4-20 mA, load < 500 ohm, overload and short circuit proofed
Power supply	18-28 Vdc, (reverse polarity protected)
Power consumption	22 mA, max. (0.6 VA)
Stability and resolution	+/- 3 ppm
Repeatability	+/- 3% of reading
Long term output drift	< 5% signal loss/year
Response time	t90 < 50 seconds
Sensor life expectancy	5 years, normal operation environment
Sensor coverage	465 m ² to 930 m ² ("ideal conditions" assumed)
Mounting height	1.5 to 1.8 m above floor
Humidity range	
Continuous:	15 to 90% non-condensing
Short time:	0 to 99% non-condensing
Temperature range	
Continuous:	-10 to +50 °C
Short time:	-20 to +50 °C
Storage temperature	+5 to +50 °C
Pressure range	Atmospheric ± 10%
Enclosure	Plastic with M20 cable entry
Dimensions	H130 x W94 x D57 mm excluding cable entry
Weight	200 g
Protection	IP 65 for housing IP 65 for CO sensor element
CE-approval	EN 45544 part 1 to part 4

Features

- Electrochemical sensor element
- 4-20 mA output
- Overload protected
- Wide supply voltage range (18-28 Vdc)
- Reverse polarity protected
- Continuous monitoring
- Low zero point drift
- Positioning stable
- Long life sensor
- Modular plug-in technology

Ordering

Carbon Monoxide gas detector 4-20 mA output

Type no.	ppm range
CMD 050C	0 - 50 ppm
CMD 100C	0 - 100 ppm
CMD 150C	0 - 150 ppm
CMD 200C	0 - 200 ppm
CMD 300C	0 - 300 ppm
CMD 400C	0 - 400 ppm
CMD 500C	0 - 500 ppm
CMD 1000C	0 - 1000 ppm

Important, please read before ordering:

The recommended storage life is up to 6 months unpowered, therefore we have normally small stock of CMD 300C that is manufactured at minimum 10 pcs per each batch.

The other CMD xxxC are manufactured on request. As the storage life for CMD xxxC is up to 6 months unpowered we need pre-payment before process the order, this to avoid any cancellation of order.

Delivery time is normally 3-4 weeks after receipt of payment.

Description

Analog CO- gas transmitter for the detection of carbon monoxide (CO) in the ambient air.

Application

For the detection of carbon monoxide (CO) within a wide range of commercial applications such as vehicle exhaust in parking structures (e.g. underground garages), engine repair shops, tunnels, equipment rooms and ventilation systems etc.

Due to the 4-20 mA analog signal the CO-detector is compatible to any electronic analog control, DDC/PLC control or automation system.

Calibration

The CMD xxxC is pre-calibrated.

The calibration interval is only depended from the local regulations.

We recommend a calibration interval of 3 years.

Calibration of zeropoint and gain with the service tool ST 03.

Wiring

7	Do not use
6	Do not use
5	Do not use
4	4-20 mA
3	24 Vdc
2	Do not use
1	Do not use

Wire connection on screw terminal
min 0.25 mm² and max 2.5 mm²

Wire distance: Max. loop resist. 500 ohm
(= wire resistor + controller input resistor).

Duct Mounting Set on request



Duct Mounting Set DMS with detector CMD

We reserve the right to make changes in our products without any notice which may effect the accuracy of the information contained in this leaflet.