

# Carbon Monoxide Detector Analogue and Relay Output

CMD



CMD Wall



(6

CMD Duct
Carbon Monoxide
Electrochemical, diffusion
+/- 3ppm
+/- 3% of reading
<5% signal loss/year t90 <50 sec.
465m2 to 930m2 "ideal conditions" assumed
6 months
1,5 to 1,8 metres above floor
load < 500ohm overload
and short circuit proofed
load < 50kohm overload
and short circuit proofed
30Vac/dc, 0,5A, pot.free SPDT
Dito SPNO/SPNC
18-28Vdc (reverse polarity prot.)
22mA, max (0,6VA <b>)</b>
5 years, normal operating envirom.
15-90% rH non-condensing
0 to 99% rH non-condensing

#### Features

- Continuous monotoring
- Low zero point drift
- Poisoning stable
- Long life sensor
- Modular plug-in technology
- Easy maintenance/calibration
- Reverse polarity protected
- Overload protected
- 4-20mA loop-powered or 2-10Vdc output signal
- Relay package
- Duct mounting
- Integrated heating for less degree than specified operating range

#### Application

For 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 analogue signal 4-20mA and 2-10vdc the CO transmitter is compatible to any electronic analogue control, DDC/PLC control or automation system.

### Ordering Codes

## Relaypack

Wall Mounting

	-		
CMD 050C	0-50ppm	4-20mA	/R
CMD 100C	0-100ppm	4-20mA	/R
CMD 150C	0-150ppm	4-20mA	/R
CMD 200C	0-200ppm	4-20mA	/R
CMD 300C	0-300ppm	4-20mA	/R
CMD 400C	0-400ppm	4-20mA	/R
CMD 500C	0-500ppm	4-20mA	/R
CMD 1000C	0-1000ppm	4-20mA	/R
CMD 050V	0-50ppm	2-10Vdc	/R
CMD 100V	0-100ppm	2-10Vdc	/R
CMD 150V	0-150ppm	2-10Vdc	/R
CMD 200V	0-200ppm	2-10Vdc	/R
CMD 300V	0-300ppm	2-10Vdc	/R
CMD 400V	0-400ppm	2-10Vdc	/R
CMD 500V	0-500ppm	2-10Vdc	/R
CMD 1000V	0-1000ppm	2-10Vdc	/R

Duct Mounting (See rear side)

Continue Short-tin	Continuous	-10 up to +50C	Cal 1 Heat	Calibration Kit for Tox-transmitters Internal heating element 18-28Vac/dc 12VA
	Short-time	-20 up tp +50C	Buzz	Internal summer
Rating		IP65 Protection Class	Steel	Enclosure of sheet steel
Pressure range		Atmospheric +/-10%	Stain	Enclosure of stainless steel
			Tool	Tool for opening holes in stainless steel enclosure

#### Automatikprodukter

Mar.10

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CMD 100V	0-100ppm	2-10Vdc	/R
CMD 150V	0-150ppm	2-10Vdc	/R
CMD 200V	0-200ppm	2-10Vdc	/R
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CMD 400V	0-400ppm	2-10Vdc	/R
CMD 500V	0-500ppm	2-10Vdc	/R

### **Connecting Diagram**

### Relay Package

With the CMD relay package two potential-free contacts are available for the connection to external devices.

The switching thresholds of these relays are selectable via potentiometer in the range of 10 - 90% of CO concentration.

The hysteresis is programmable via jumpers.

Addditionally the relay mode, open-circuit or closed circuit, is selectable.

The status of the two relays is displayde via LED



