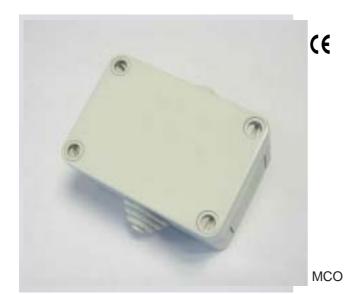
Carbon Monoxide Detector

IP55





AP

Technical Data		Applicatio	
Gas	Carbon Monoxide	For detection	
Detection principle	Electrochemical, diffusion	commercial a structures (e tunnels equip	
Stability & resolution	+/- 3ppm	Due to the ar transmitter is	
Repeatability	+/- 3% of reading	DDC/PLC co	
		Operation m	
Long term output drift	<5% signal loss/year	The transmit	
Response time	t90 <50 sec.	Only 2-wire o	
Sensor coverage	400m2	Operation m	
Storage time	6 months	Remove R40	
		Always 3-wir	
Mounting height Output signal	1,5 to 1,8 metres above floor	,	
4-20mA	load < 500ohm overload	Ordering	
0.40141	and short circuit proofed	Wall Mour	
2-10Vdc	load < 50kohm overload and short circuit proofed	MCO 050	
	and short circuit probled	MCO 030 MCO 100	
		MCO 150	
Power supply	18-28Vdc (reverse polarity prot.)	MCO 200	
Power consumption	22mA, max (0,6VA)	MCO 300	
Expected lifetime	5 years, normal operating envirom.	MCO 400 MCO 500	
_//p • • • • • • • • • • • • • • • • • •		MCO 1000	
Humidity range		Stain E	
Continuous	15-90% rH non-condensing	Tool ⊺	
Operating range		/GCD F	
Continuous	-10 up to +50C	GAS 17 (REG	
Poting	IDEE Drataction Class	Warning dev	
Rating Pressure range	IP55 Protection Class Atmospheric +/-10%	Warning sig	

Features

- Continuous monotoring

- Low zero point drift
- **Poisoning stable**
- Long life sensor
- Easy maintenance/calibration -
- **Reverse polarity protected**
- **Overload protected**
- 4-20mA loop-powered or 2-10Vdc output signal

ation

ction of carbon monoxide (CO) within a wide range of cial applications such as vehicle exhaust in parking s (e.g. underground garages) engine repair shops, equipment rooms and ventilation systems etc.

he analogue signal 4-20mA and 2-10Vdc the CO er is compatible to any electronic analogue control, C control or automation system.

on mode 4-20mA:

smitter is always current source. ire conection

on mode 2-10V:

R40 by using a wire cutter

ire connectio		R 40
	G ain Zero	
Codes		
nting		$\bigcirc \lor \bullet \bigcirc$
	0-50ppm	4-20mA/2-10Vdc
	0-100ppm	4-20mA/2-10Vdc

D 40

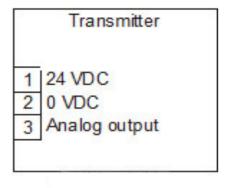
A /O 4 O) / I

Automatikprodukter					
arning s	igns	See special da	tasheet		
arning devices		See special datasheet			
EG	Pressure re	egulator flow adju	usted to 0,5 lit/min.		
AS 17	Calibration	gas 17 liter			
CD	Protocol for CDA-series				
loc	Tool for ope	ning holes in sta	inless steel enclosure		
ain	Enclosure of	stainless steel			
CO 1000		0-1000ppm	4-20mA/2-10Vdc		
CO 500		0-500ppm	4-20mA/2-10Vdc		
CO 400		0-400ppm	4-20mA/2-10Vdc		
CO 300		0-300ppm	4-20mA/2-10Vdc		
CO 200		0-200ppm	4-20mA/2-10Vdc		
CO 150		0-150ppm	4-20mA/2-10Vdc		

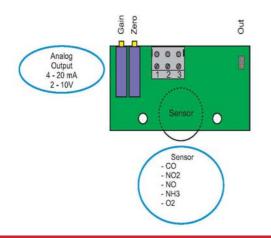
4 - 0

	bon Monoxide ector	IP55	МСО	Feb.11		
Technical Data continue Physical Characteristics		Maintanance At commissioning and at periodic intervals determined by the person responsible for the gas detection system (recommendation every year).				
Enclosure	GW Plast 75 GWT		L			
Flammability	UL94: VO Halogenfree	After exchange of the sensor If in case of operational or climatic influenc sensitivity of the sensor falls below 30 % in ope				
Enclosure colour	RAL 7032 (light grey)					
Dimensions	nsions 80 x 40mm		calibration will not be possible any more.			
Weight	Approx. 0,2kg	Then the senso	r has to be changed.			
Installation	Wall mounting					
Cable entry	Standard 3 pieces	Exchange of sense	or element			
Wire connection	Screw type terminal min. 0,25mm2 and max 2,5mm2	 Unplug basic PCB EC-S carefully from terminal blocks on the base. Upplug old consor element from the E 				
	Max. loop resistor 500ohm (= wire resistor + controller input resistor)		sensor element from the PC sor element into the PCB E	C-S.		
Guidelines	EMV-Directive 89/336/EWG, CE	carefully.				
	EM-Directive 2004/108/EWG, CE	 Calibrate 				

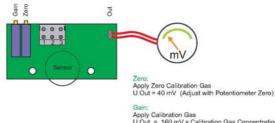
Connecting Diagram



Terminal 2 i only for 2-10Vdc signal = 3-wire 4-20mA two-wire loop powered

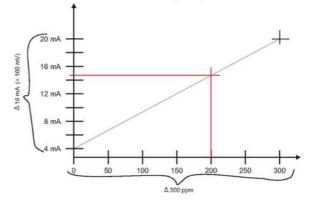


Calibration



Gam: Apply Calibration Gas U Out = <u>160 mV x Calibration Gas Concentration (ppm)</u> + 40 mV Measuring range (ppm) (Adjust with Potentiometer Gain)





Automatikprodukter