

PolyGard® Carbon Monoxide CO Analog Transmitter AT02 1110

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 -transmitter is compatible to any electronic analog control, DDC/PLC control or automation system (e.g. PolyGard Series MGC by the MSR-E).

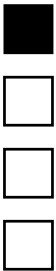


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Stainless steel

Features

- Continuous monitoring
- Low zero point drift
- Poisoning stable
- Long life sensor
- Modular plug-in technology
- Easy maintenance / calibration
- Reverse polarity protected
- Overload protected
- 4 – 20 mA analog signal output
- Relay package (optional)
- Duct mounting (optional)
- IP65 protected (optional)





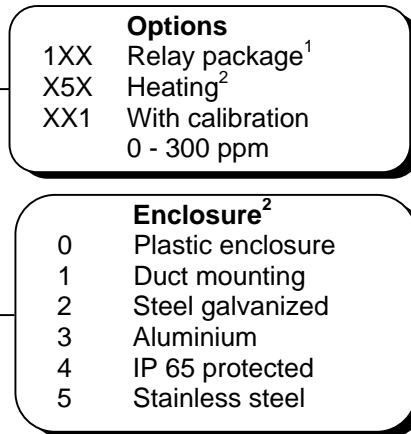
Specifications

Electrical	
Power supply	18 - 28 VDC (reverse polarity protected)
Power consumption	22 mA, max. (0,6 VA)
Sensor Performance	
Detected gas	Carbon monoxide (CO)
Sensor element	Electrochemical, diffusion
Measuring range	0 – 300 ppm factory set, 0 - 150 to 0 – 300 ppm, adjustable via calibration
Stability & resolution	± 3 ppm
Repeatability	± 3 % of reading
Long term output drift	< 5% signal loss/year
Response time	$t_{90} \leq 50$ sec.
Sensor life expectancy	5 years, normal operating environment
Sensor coverage	465 m ² , (5,000 sq.ft.), to 930 m ² (10,000 sq.ft.) "ideal conditions" assumed
Mounting height	1.5 to 1.8 m (5 to 6 ft.) above floor
Type of Control	
Analog output signal	Proportional, 4 – 20 mA, load $\leq 500 \Omega$ overload and short-circuit proofed
Operating Environment	
Humidity Range: Continuous	15 to 90 % RH non-condensing
Short-time	0 to 99 % RH non-condensing
Working temp.: Continuous	-10 °C to + 50 °C (14 °F to 122 °F)
Short-time	-20 °C to + 50 °C (-4 °F to 122 °F)
Storage temperature	5 °C to + 50 °C (41 °F to 122 °F)
Pressure range	Atmospheric $\pm 10\%$
Physical characteristics	
Enclosure material*	Stainless Steel
Enclosure color*	Natural, untreated
Dimensions (HxWxD)*	135 x 113 x 45 mm (5.35 x 4.5 x 1.8 in.)
Weight*	0.5 kg (1.1 lbs.)
Protection class*	IP 55
Mounting*	Wall mounted, pillar mounted
Cable entry	1 x M 20
Wire connection	Screw type terminal, min. 0.25 mm ² (24 AWG) max. 2.5 mm ² (14 AWG)
Wire distance	Max. loop resist. 500 Ω (= wire resistor + controller input resistor)
Approvals/Listings	
	VDI 2053 German air treatment systems for car parcs
	EMV- Directive 89/336/EWG
	CE
Warranty	One year on material and workmanship (Without sensor)

*For option "stainless steel" and further enclosure types see datasheet AT-DT Enclosure.

Ordering Information

AT-02-1110-0-001



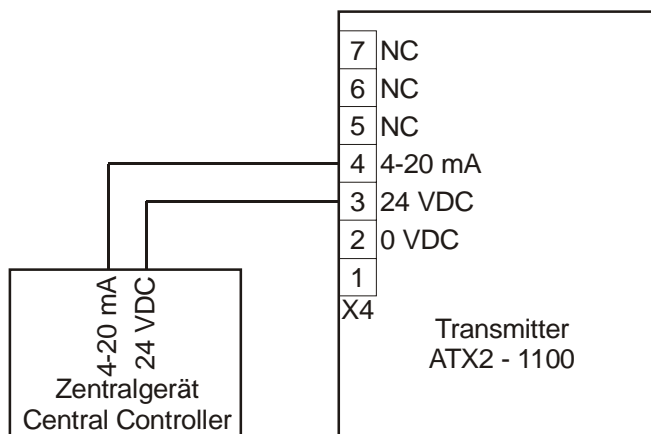
¹ See Data sheet „AT-Options“

² See Data sheet „PolyGard AT/DT Enclosure“

Example: CO – transmitter with calibration 0 – 300 ppm, stainless steel enclosure

Ordering Number: AT-02-1110-5-001

Connecting Diagram



Dimensions

See Data sheet „PolyGard AT/DT Enclosure“