

PolyGard[®] Formaldehyde CH₂O Analog Transmitter AT52- 1185

Description

Analog CH₂O- gas transmitter for the detection of Formaldehyde in the ambient air.

Application

To sense Formaldehyde (CH₂O) within a wide range of commercial applications. Due to the 4 – 20 mA analog signal the CH₂O- transmitter is compatible to any electronic analog control, DDC/PLC control or automation system (e.g. PolyGard Series MGC by the MSR-E)

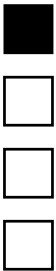


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Stainless steel

Features

- Continuous monitoring
- Low output and 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 mounted (optional)
- IP 65 protected (optional)



Specifications

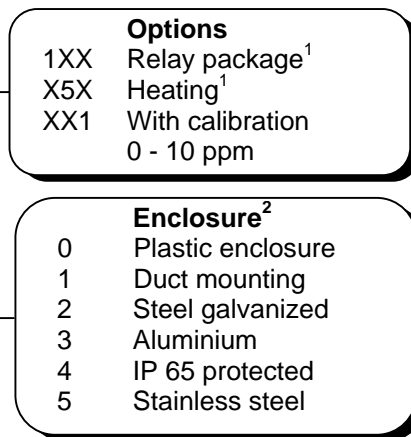
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|---------------------------------|---|
| Electrical | |
| Power supply | 18 - 28 VDC (reverse polarity protected) |
| Power consumption | 22 mA, max. (0,6 VA) |
| Sensor Performance | |
| Detected gas | Formaldehyde (CH ₂ O) |
| Sensor element | Electrochemical, diffusion |
| Measuring range | 0 – 10 ppm factory set, 0 - 5 to 0 – 10 ppm, adjustable via calibration |
| Stability & resolution | 0,05 ppm |
| Long term output drift | < 2 % signal loss/month |
| Response time | t ₉₀ ≤ 50 sec. |
| Sensor life expectancy | 3 years, normal operating environment |
| Mounting height | 0,3 to 0,6 m (1 to 2 ft.) above floor |
| Type of Control | |
| Analog output signal | Proportional, 4 – 20 mA, load ≤ 500 Ω overload and short-circuit proofed |
| Operating Environment | |
| Humidity range | 15 to 90 % RH non-condensing |
| Working temperature | -20 °C to + 45 °C (14 °F to 113 °F) |
| Storage temperature | 5 °C to + 30 °C (41 °F to 86 °F) |
| Pressure range | Atmospheric ±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) |
| Guideline | 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-52-1185-0-001



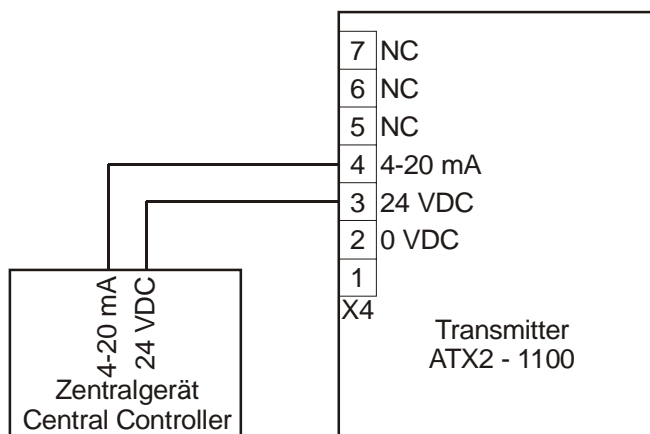
¹ See Data sheet „AT-Options“

² See Data sheet „PolyGard AT/DT Enclosure“

Example: CH₂O – transmitter with calibration 0 – 10 ppm, stainless steel enclosure

Ordering Number: AT-52 1185-5-001

Connecting Diagram



Dimensions

See Data sheet „PolyGard AT/DT Enclosure“