



PolyGard® Ammonia NH₃ Analog Transmitter AT62- 1125

Description

Analog NH₃ gas transmitter for the detection of ammonia gas (NH₃) in the ambient air.

Application

To detect leakages in refrigeration plants with ammonia as refrigerant, and also within a wide range of commercial applications. Due to the 4 – 20 mA analog signal the NH₃ transmitter is compatible to the PolyGard series MGC by MSR-E as well as to any other analog controls or automation systems.

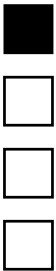


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Stainless steel

Features

- Continuous monitoring
- Low output and zero-point drift
- Good poisoning stability
- 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)



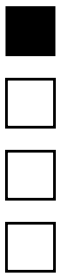
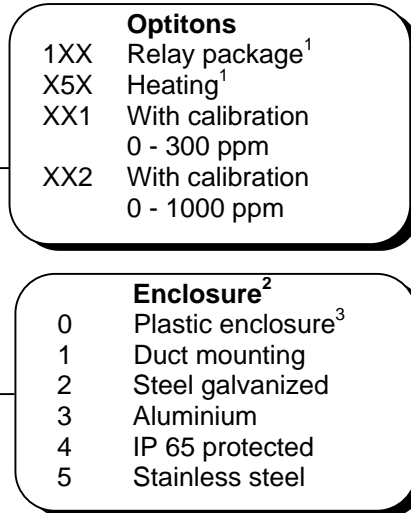
Specifications

Electrical	
Power supply	18 - 28 VDC (reverse polarity protected)
Power consumption	22 mA, max. (0,6 VA)
Sensor Performance	
Detected gas	Ammonia (nH ₃)
Sensor element	Electrochemical, diffusion
Measuring range	0 - 300 ppm factory set, 0 - 300 to 0 - 1000 ppm, adjustable via calibration
Stability & resolution	< 15 ppm
Repeatability	± 5 % of reading
Long term output drift	< 10 % signal loss/month
Response time	t ₉₀ ≤ 120 sec.
Sensor life expectancy	2 years, normal operating environment
Mounting height	Under the Ceiling
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	-40 °C to + 40 °C (-40 °F to 104 °F)
Storage temperature	5 °C to + 40 °C (32 °F to 104 °F)
Pressure range	Atmospheric ±10%
Physical characteristics	
Enclosure material*	Stainless steel
Enclosure color*	Natural, brushed
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

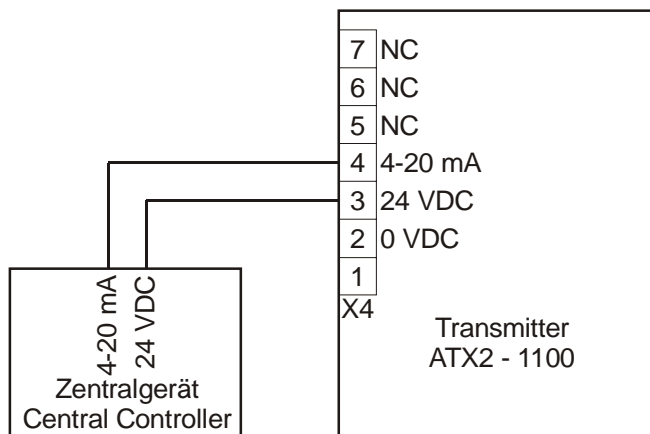
AT-62-1125-0-001



- ¹ See Data sheet „AT-Options“
² See Data sheet „PolyGard AT/DT Enclosure“
³ Plastic enclosure only up to – 20°C

Example: NH₃ – transmitter with calibration 0 – 300 ppm, stainless steel enclosure
Ordering Number: AT-62-1125-5-001

Connecting Diagram



Dimensions

See Data sheet „PolyGard AT/DT Enclosure“