

# PolyGard<sup>®</sup> Oxygen O<sub>2</sub> Analog Transmitter AT12 1195

## Description

Analog Oxygen O<sub>2</sub> transmitter for the continuous monitoring of the oxygen concentration in ambient air.

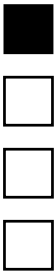
## Application

For monitoring the oxygen content in rooms where changes of the oxygen concentration are possible, such as laboratories and food production etc. Due to the 4 – 20 mA output signal the O<sub>2</sub> transmitter can be connected to any electronic analog control, DDC/PLC control or automation system (e.g. PolyGard Series MGC by the MSR-E).



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## Features



- Continuous monitoring
- Low output drift
- Poisoning stable
- Long life sensor
- Modular plug-in technology
- Easy maintenance / calibration
- Reverse polarity protected
- Overload protected
- 4 – 20 mA analog signal output
- Duct mounting (optional)
- IP 65 protected (optional)

Stainless steel

## Specifications

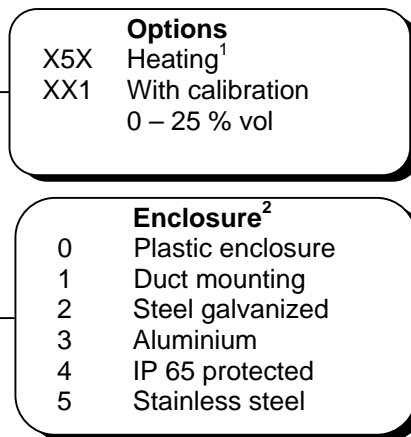
<b>Electrical</b>	
Power supply	10 - 35 VDC (reverse polarity protected)
Power consumption	22 mA, max. (0,6 VA)
<b>Sensor Performance</b>	
Detected gas	Oxygen O <sub>2</sub>
Sensor element	Electrochemical, diffusion
Measuring range	0 – 25 vol. %
Accuracy	0,1 %
Long term output drift	< 5% signal loss/year
Response time	t <sub>90</sub> ≤ 15 sec.
Sensor life expectancy	2 years, normal operating environment
Mounting height	1,5 to 1,8 m (5 to 6 ft.) above floor
<b>Type of Control</b>	
Analog output signal	Proportional, 4 – 20 mA, load ≤ 500 Ω overload and short-circuit proofed
<b>Operating Environment</b>	
Humidity Range	0 to 99 % RH non-condensing
Working temperature	-20 °C to + 50 °C (-4 °F to 122 °F)
Storage temperature	0 °C to + 30 °C (32 °F to 86 °F)
Pressure range	Atmospheric ±10%
<b>Physical characteristics</b>	
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 <sup>2</sup> (24 AWG) max. 2.5 mm <sup>2</sup> (14 AWG)
Wire distance	Max. loop resist. 500 Ω (= wire resistor + controller input resistor)
<b>Approvals/Listings</b>	
	EMV- Directive 89/336/EWG
	CE
<b>Warranty</b>	
	One year on material and workmanship (Without sensor)

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



## Ordering Information

AT-12-1195-0-001

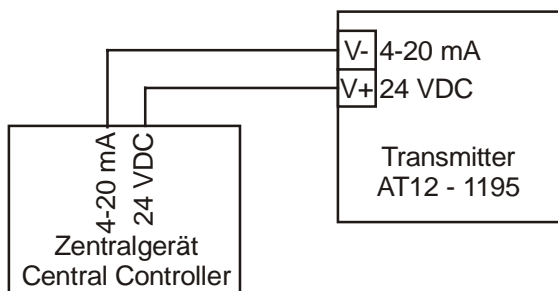


<sup>1</sup> See Data sheet „AT-Options“

<sup>2</sup> See Data sheet „PolyGard AT/DT Enclosure“

**Example:** O<sub>2</sub> – transmitter with calibration 0 – 25 % vol stainless steel enclosure  
**Ordering Number: AT-12-1195-5-001**

## Connecting Diagram



## Dimensions

See Data sheet „PolyGard AT/DT Enclosure“