

OXYGEN 4SE 5V**Technical Specification**

<i>Sensor Type</i>	<i>O₂ 25 Sensor 4 SE 5V</i>
<i>Detectable Gases</i>	<i>Oxygen</i>
<i>Part Number</i>	<i>01-34-30-02</i>
<i>Measuring Principle</i>	<i>Amperometric 3-electrode sensor</i>
<i>Contact</i>	<i>5 pin socket connector (spacing 2,54 mm)</i>
<i>Standard Range</i>	<i>0.0 – 30.0 Vol. %</i>
<i>Lower Detectable Limit (LDL)</i>	<i>0.1 Vol. %</i>
<i>Maximum Range</i>	<i>40 Vol. %</i>
<i>Long Term Sensitivity Drift</i>	<i>< 0.1 Vol. % / 6 month</i>
<i>Linearity at standard range</i>	<i>linear</i>
<i>Repeatability</i>	<i>> 98 % of signal</i>
<i>Sensitivity</i>	<i>100 mV / % O₂</i>
<i>Signal Out</i>	<i>0 - 4,8 VDC</i>
<i>Adjusted</i>	<i>2,1 VDC = 21 % O₂</i>
<i>Power Supply</i>	<i>12 - 24 VDC</i>
<i>Amplification</i>	<i>With trim potentiometer</i>
<i>Power On</i>	<i>LED signal green</i>
<i>Alarm</i>	<i>LED signal red</i>
<i>Response time at target level</i>	
<i>T50</i>	<i>< 5 s</i>
<i>T90</i>	<i>< 15 s</i>
<i>Sensor warm up time typically</i>	<i>10 min</i>
<i>(Pre-powered)</i>	<i>(10 s)</i>
<i>Operating conditions</i>	<i>- 20°C ... +50°C</i>
	<i>10 ... 95 % r. h.</i>
<i>Pressure dependence</i>	<i>linear</i>
<i>Expected life time</i>	<i>> 3 years</i>

To set Alarm signal, you have to trim potentiometer

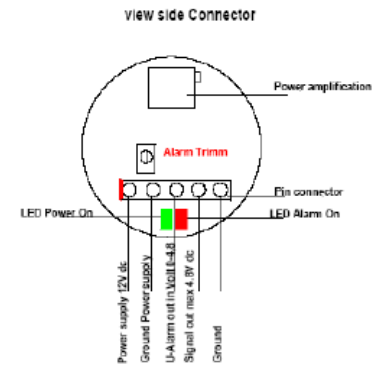
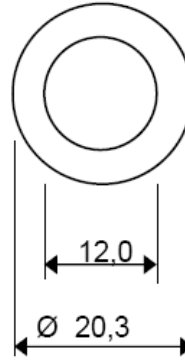
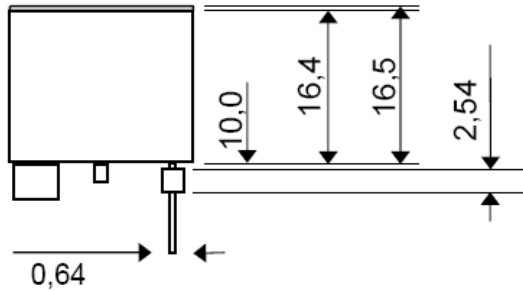
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Temperature Dependence

Sensor dimensions

Ø 20,3 mm; High 26,5 mm

(± 0,15 mm tolerance)



* soldering to the pins will damage the sensor

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Temperature Dependence

Temperature compensated

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Cross Sensitivity

N.A.

Note:

The sensor can be used in applications of high CO₂ level due to the fact that it contains an acid electrolyte.

Test conditions at 20°C/ 1013 hPa, Flow Rate > 500 qcm/min
 Cross sensitivity gases are not target gases. Relation can change with aging.

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