

Specification Sheet OXYGEN Micro

<i>Sensor Type</i>	<i>O2 Sensor Micro</i>
<i>Detectable Gases</i>	<i>O2 Oxygen</i>
<i>Part Number</i>	<i>01-27-30-01</i>
<i>Measuring Principle</i>	<i>Amperometric 3-electrode sensor</i>
<i>Specific Sensor Data</i>	<i>no</i>
<i>Connector</i>	<i>3 gold contacts with pins</i>



Technical Specifications

Standard Range	0.0 – 30.0 Vol. %
Lower Detectable Limit (LDL)	0.1 Vol. %
Maximum Range	50 Vol. %
Bias voltage	-400 - -600 mV
MAK/TLV	
Long Term Sensitivity Drift	< 0.1 Vol. % / month
Deviation from linearity at standard range	< 5 % FS
Current at 21 Vol. % Oxygen	6 - 11 μ A
Sensitivity	~ 0,04 nA / ppm
Response time at target level	
T50	< 5 s
T90	< 15 s
Sensor warm up time typically (pre-sourced)	10 min (10 s)
Operating conditions	- 20°C ... +50°C 15 ... 90 % r. h.
Temperature dependence	< 0,3 % / °C
Sensor life time	3 years expected
Sensor dimensions	6,5 x 11,4 x 14,4 mm

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Cross Sensitivity

<i>Gas</i>	<i>Formula</i>	<i>Test Gas Concentration</i>	<i>Reading in %</i>
Ammonia	NH ₃	100 ppm	0.0
Carbon Dioxide	CO ₂	5000 ppm	0.0
Carbon Monoxide	CO	60 ppm	0.0
Chlorine	Cl ₂	1.0 ppm	0.0
Hydrocarbons unsaturated	-	1 %	0.0
Hydrogen	H ₂	100 ppm	0.0
Hydrogen Sulphide	H ₂ S	10 ppm	0.0
Isopropanol	C ₃ H ₇ OH	1000 ppm	0.0
Nitric Oxide	NO	20 ppm	0.0
Nitrogen Dioxide	NO ₂	10 ppm	0.0
Ozone	O ₃	0.5 ppm	0.0
Sulphur Dioxide	SO ₂	20 ppm	0.0

Please Note: 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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