

Specification Sheet OXYGEN 4 S

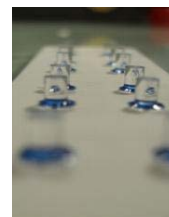
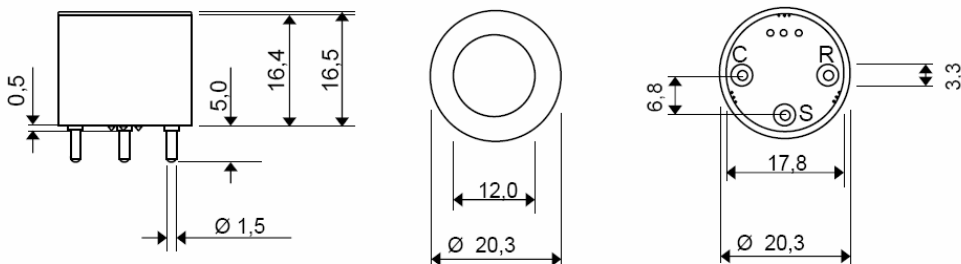
<i>Sensor Type</i>	O2 Sensor 4 S
<i>Detectable Gases</i>	O2 Oxygen
<i>Part number</i>	01-04-30-02
<i>Measuring Principle</i>	Amperometric 3-electrode sensor
<i>Specific Sensor Data</i>	no
<i>Connector</i>	3 gold contacts



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	7 - 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	\varnothing 20,3 mm, height 21,5 mm (+/- 0,15 mm)

Dimensions SolidSense sensor 4 S
(all dimensions in mm \pm 0,15 mm tolerance)





Specification Sheet Oxygen 4 S

Cross Sensitivity

Gas	Formula	Test Gas Concentration	Reading in %
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.

Solidsense GmbH believes the data contained herein are factual, and the opinions expressed are of qualified experts regarding the results of tests conducted, the data are not to be taken as warranty or representation which Solidsense assumes legal responsibility. The data are offered solely for consideration, investigation, and verification. Any use of these data and information must be determined by the user to be in accordance with federal, state, and local laws and regulations. Specifications are subject to change without notice.

Rev. 10-12-06