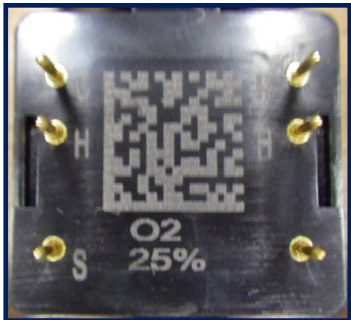


## OXYGEN *Micro+* Technical Specification

Sensor Type	<i>O<sub>2</sub> Sensor Micro+</i>
Detectable Gases	<i>Oxygen</i>
Part Number	<i>01-37-30-00</i>
Measuring Principle	<i>Amperometric 3-electrode sensor</i>
Contact	<i>6 pins solderable with care</i>
Standard Range	0.0 – 30.0 Vol. %
Lower Detectable Limit (LDL)	0.1 Vol. %
Maximum Range	50 Vol. %
Bias Voltage	- 400 to -600 mV
Long Term Sensitivity Drift	< 0.8 Vol. % / 9 month
Linearity at standard range	linear
Repeatability	> 98 % of signal
Current at 21 Vol. % Oxygen	7 – 18 µA
Sensitivity	~ 0,03 – 0,08 nA/ppm
Response time at target level	
T50	< 5 s
T90	< 40 s
Sensor warm up time typically	10 min
(Pre-powered)	(10) s
Operating conditions	- 20°C ... +50°C 10 ... 95 % r. h.
Pressure dependence	linear
Expected life time	> 3 years

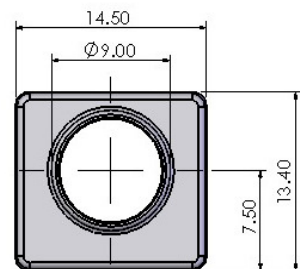
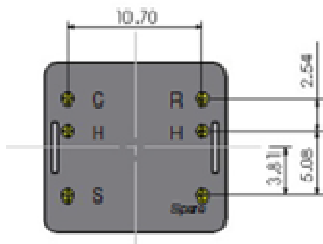
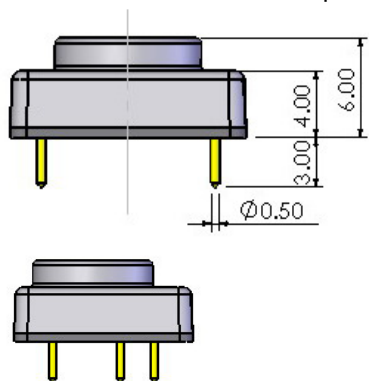


## OXYGEN *Micro+* Dimensional Drawing

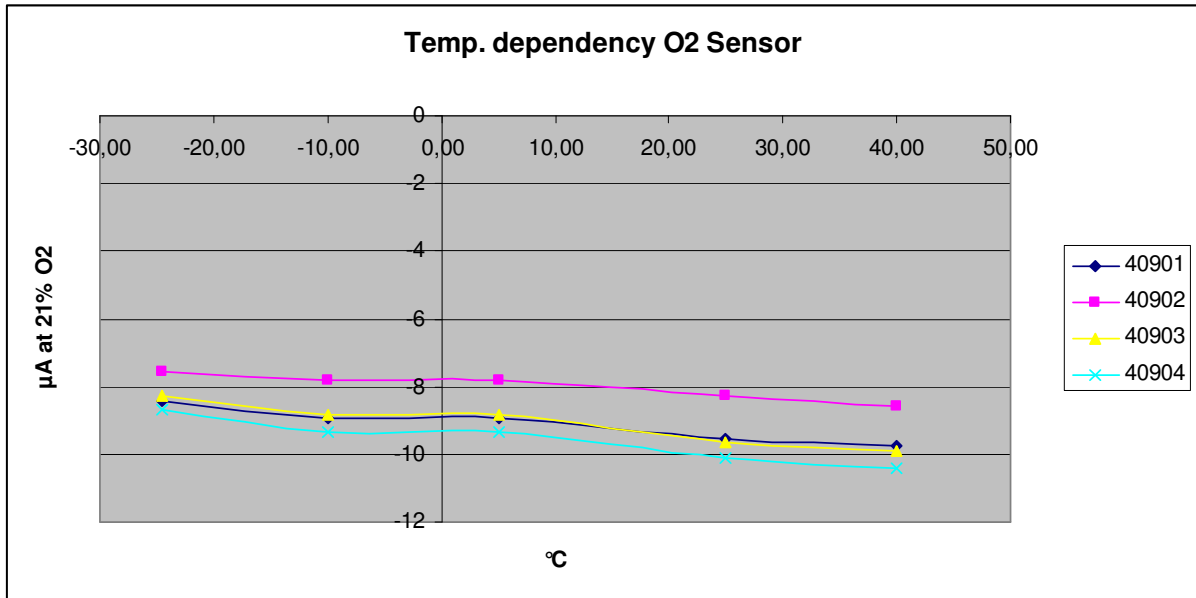
Sensor dimensions without pins

14,5 mm x 13,4 mm x 9 mm

± 0,15 mm tolerance



**OXYGEN *Micro+* Temperature Dependence**



Temperatur [°C]

**OXYGEN *Micro+* Cross Sensitivity**

N.A.

**Note:**

The sensor can be used in applications of high CO<sub>2</sub> level due to the fact that it contains an acid electrolyte.

Test conditions at 23°C/ 1013 hPa, Flow Rate > 500 qcm/min  
 Cross sensitivity gases are not target gases. Relation can change with aging.

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