

Specification Sheet NITROGEN DIOXIDE 4S

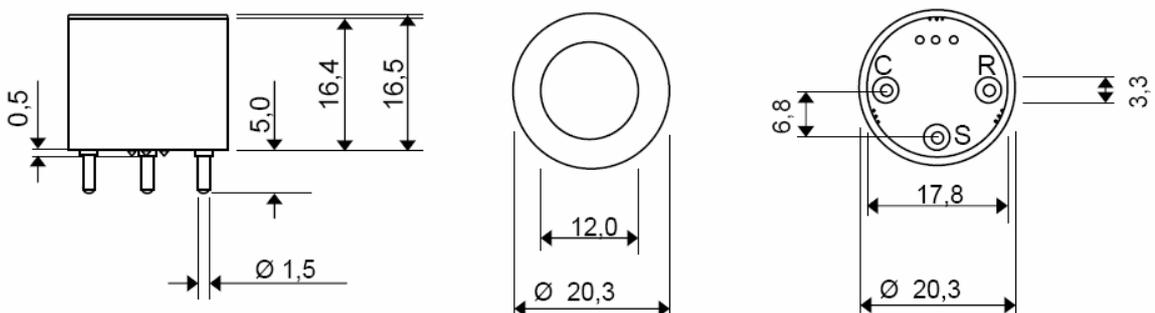
<i>Sensor Type</i>	<i>NO2 4 S</i>
<i>Detectable Gases</i>	<i>NO2 Nitrogen Dioxide</i>
<i>Part Number</i>	<i>01-04-50-03</i>
<i>Measuring Principle</i>	<i>Amperometric 3-electrode sensor</i>
<i>Specific Sensor Data</i>	<i>no</i>
<i>Connector</i>	<i>3 gold contacts</i>



Technical Specifications

Standard Range	0 – 100 ppm
Lower Detectable Limit (LDL)	200 ppb
Maximum Range	500 ppm
MAK/TLV	3 ppm
Long Term Sensitivity Drift	< 1 % / month
Deviation from linearity at standard range	< 10 % FS
Zero current at normal conditions	+/- 2 nA
Sensitivity	10 - 30 nA/ppm
Response time at target level	
T50	< 3 s
T90	< 10 s
Sensor warm up time typically	1 min
Operating conditions	- 20°C ... +60°C 15 ... 90 % r. h.
Temperature dependence	< 3 %/°C
Sensor life time	5 years expected
Sensor dimensions	Ø 20,3 mm: Height 21,5 mm

Dimensions Solidsense sensor 4 S
(all dimensions in mm ± 0,15 mm tolerance)





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Cross Sensitivity

<i>Gas</i>	<i>Formula</i>	<i>Test Gas Concentration</i>	<i>Reading in ppm</i>
Ammonia	NH ₃	25 ppm	0
Carbon Dioxide	CO ₂	5000 ppm	0
Carbon Monoxide	CO	30 ppm	0
Chlorine	Cl ₂	1.0 ppm	0
Hydrocarbons unsaturated	-	1 %	0
Hydrogen	H ₂	3800 ppm	0
Hydrogen Sulphide	H ₂ S	10 ppm	-7
Isopropanol	C ₃ H ₇ OH	1000 ppm	0
Nitric Oxide	NO	20 ppm	0
Chlorine Dioxide	ClO ₂	1 ppm	1
Ozone	O ₃	0.5 ppm	?
Sulphur Dioxide	SO ₂	20 ppm	?

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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