

SEC Gas Sensor



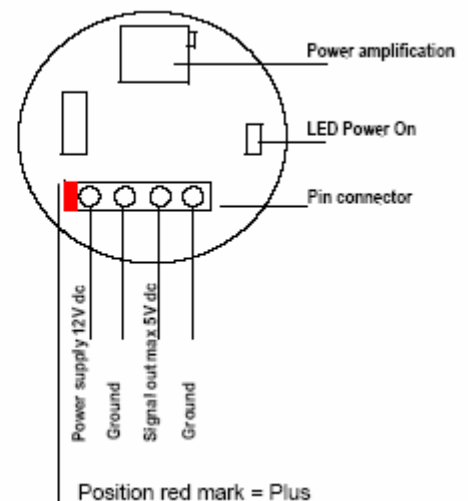
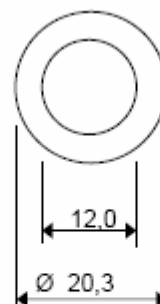
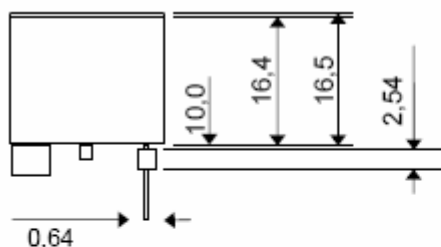
Specification Sheet NITROGEN DIOXIDE 4 SE 5 V

<i>Sensor Type</i>	<i>NO2 4 SE 5 V</i>
<i>Detectable Gases</i>	<i>NO2 Nitrogen Dioxide</i>
<i>Part Number</i>	<i>01-34-50-02</i>
<i>Measuring Principle</i>	<i>Amperometric 3-electrode sensor</i>
<i>Specific Sensor Data</i>	<i>no</i>
<i>Connector</i>	<i>4 pin socket connector</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 voltage at normal conditions	200 mV (± 10 mV) shifted for Offset
Sensitivity	~ 48 mV/ppm
Signal Out:	0,2 to 5 VDC
Supply Voltage	8 -24 VDC
Temperatur compensation	Not available
Amplification	With trim potentiometer
Power On	LED – signal green
Response time at target level	
T50	< 3 s
T90	< 10 s
Sensor warm up time typically	10 min
Operating conditions	- 20°C ... +60°C 15 ... 90 % r. h.
Sensor life time	5 years expected
Sensor dimensions	Ø 20,3 mm: Height 26,5 mm





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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	100 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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