

NITROGEN DIOXIDE 4SE 5V Technical Specification

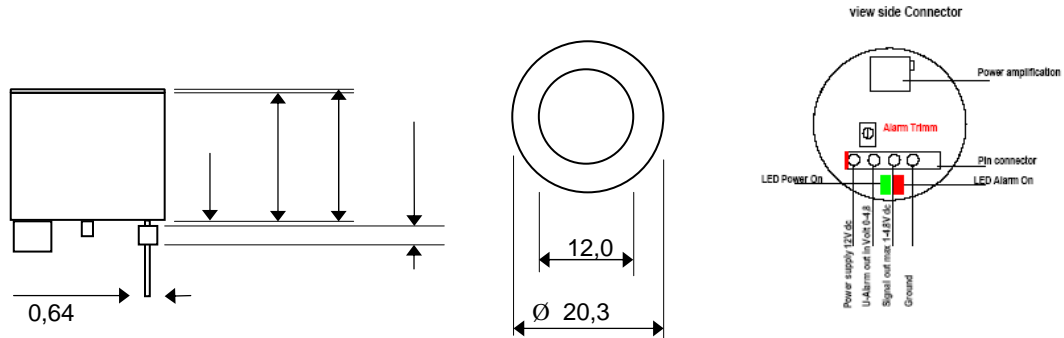
<i>Sensor Type</i>	SEC NO ₂ 100 4SE 5V
<i>Detectable Gases</i>	Nitrogen Dioxide
<i>PN single sensor</i>	01-34-50-02
<i>Measuring Principle</i>	Amperometric 3-electrode sensor
<i>Contact</i>	4 pin and socket connector (spacing 2,54 mm)
Standard Range	0 – 100 ppm
Lower Detectable Limit (LDL)	200 ppb
Maximum Range	500 ppm
LEL	3 ppm
Long Term Sensitivity Drift	< 1 % / month
Linearity at standard range	linear
Repeatability	> 98 % of signal
Zero Line	0,2 VDC
Sensitivity	10-30 nA/ppm
Signal Out	0,2 – 4,8 VDC
Adjusted	3 VDC = 100 ppm
Power Supply	8-24 VDC (10 mA @ 12 VDC)
Amplification	With trim potentiometer
Power On	LED signal green
Alarm	LED signal red
Response time at target level	
T50	< 10 s
T90	< 30 s
Sensor warm up time typically	20 s
Operating conditions	- 20°C ... + 60°C
	10 ... 95 % r. h.
Expected life time	3 years



To set Alarmsignal , you have to trim Potentiometer

NITROGEN DIOXIDE 4SE 5V Dimensional Drawing

Sensor dimensions without pins Ø 20,3 mm, Height 26,5 mm ± 0,15 mm tolerance



NITROGEN DIOXIDE 4SE 5V Temperature Dependence

Temperature compensated

NITROGEN DIOXIDE 4SE 5V Cross Sensitivity

Gas	Formula	Test Gas Concentration	Reading in ppm
Ammonia	NH3	25 ppm	0
Carbon Dioxide	CO2	5000 ppm	0
Carbon Monoxide	CO	30 ppm	0
Chlorine	Cl2	1.0 ppm	0
Hydrocarbons unsaturated	-	1 %	0
Hydrogen	H2	100 ppm	0
Hydrogen Sulphide	H2S	10 ppm	-7
Isopropanol	C3H7OH	1000 ppm	0
Nitric Oxide	NO	20 ppm	0
Chlorine Dioxide	ClO2	1 ppm	1
Ozone	O3	0.5 ppm	?
Sulphur Dioxide	SO2	20 ppm	?

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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