

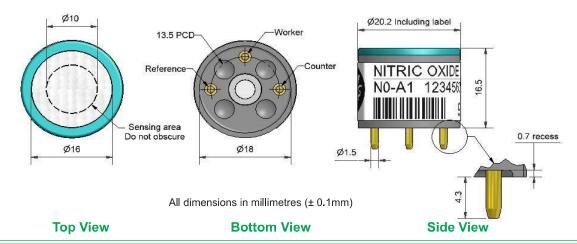


NO-A1 Nitric Oxide Sensor



Figure 1 NO-A1 Schematic Diagram

PATENTED



PERFORMANCE	Sensitivity Response time Zero current Resolution Range Linearity Overgas limit		nA/ppm in 50ppm NO t ₉₀ (s) from zero to 50ppm NO ppm equivalent in zero air RMS noise (ppm equivalent) ppm NO limit of performance warranty ppm error at full scale, linear at zero and 50ppm NO maximum ppm for stable response to gas pulse		320 to 480 < 45 0 to +2 < 0.2 250 +15 to +25 800
LIFETIME	Zero drift		ppm equivalent change/year in lab air		< 0.3
	Sensitivity drift		% change/year in lab air, monthly test		< 5
	Operating life		months until 80% original signal (24 month warranted)		> 24
ENVIRONMENTA	ALSensitivity @ -20°C		C% (output @ -20°C/output @ 20°C) @ 50ppm		83 to 94
	Sensitivity @ 50°C		% (output @ 50°C/output @ 20°C) @ 50ppm		98 to 104
	Zero @ -20°C		ppm equivalent change from 20°C		< 0 to -1
	Zero @ 50°C		ppm equivalent change from 20°C		< 3 to 16
CROSS SENSITIVITY	H ₂ S NO ₂ CI ₂ SO ₂ H ₂ CO NH ₃ CO ₂	sensitivity sensitivity sensitivity sensitivity sensitivity sensitivity sensitivity	% measured gas @ 20ppm % measured gas @ 50ppm % measured gas @ 10ppm % measured gas @ 20ppm % measured gas @ 400ppm % measured gas @ 400ppm % measured gas @ 20ppm % measured gas @ 5% Vol	H ₂ S NO ₂ CI ₂ SO ₂ H ₂ CO NH ₃ CO ₂	< 30 < 5 < 15 < 3 < 0.1 < 0.1 < 0.1

KEY SPECIFICATIONS

· · · · · · · · · · · · · · · · · · ·	+300	
Pressure range kPa Humidity range % rh continuous Storage period months @ 3 to 20°C (stored in sealed pot)	00 (50	
Humidity range % rh continuous Storage period months @ 3 to 20°C (stored in sealed pot)	-30 to 50	
Storage period months @ 3 to 20°C (stored in sealed pot)	80 to 120	
0 1	15 to 90	
Load register () (recommended)	6	
Load resistor 22 (recommended)	10 to 47	
Weight g	< 6	



At the end of the product's life, do not dispose of any electronic sensor, component or instrument in the domestic waste, but contact the instrument manufacturer, Alphasense or its distributor for disposal instructions.

NOTE: all sensors are tested at ambient environmental conditions, with 10 ohm load resistor, unless otherwise stated. As applications of use are outside our control, the information provided is given without legal responsibility. Customers should test under their own conditions, to ensure that the sensors are suitable for their own requirements.