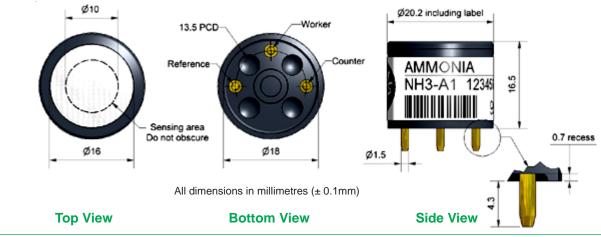
NH3-A1 Ammonia Sensor



Figure 1 NH3-A1 Schematic Diagram



PERFORMANCE	Sensitivity Response time Zero current Resolution Range Linearity Overgas limit	nA/ppm in 50ppm NH ₃ t ₉₀ (s) from zero to 50ppm NH ₃ ppm equivalent in zero air RMS noise (ppm equivalent) ppm NH ₃ limit of performance warranty ppm error at full scale, linear at zero and 20ppm NH ₃ maximum ppm for stable response to gas pulse	17 to 27 <60 <20 <0.3 200 +1 to -10 1000
LIFETIME	Zero drift Sensitivity drift Operating life	ppm equivalent change/year in lab air % change/year in lab air, monthly test months until 80% original signal (24 month warranted)	<2 <3 >24
ENVIRONMENTAL			
	Sensitivity @ -20°C	% (output @ -20°C/output @ 20°C) @ 20ppm	ND
		% (output @ 50°C/output @ 20°C) @ 20ppm	ND
	Zero @ -20°C	ppm equivalent change from 20°C	ND
	Zero @ 50°C	ppm equivalent change from 20°C	ND
CROSS	H ₂ S sensitivity	% measured gas @ 20ppm H ₂ S	<300
SENSITIVITY	NO ₂ sensitivity	% measured gas @ 20ppm NO ₂	<-300
	Cl ₂ sensitivity	% measured gas @ 10ppm Cl ₂	<-300
	NO sensitivity	% measured gas @ 50ppm NO	ND
	SO ₂ sensitivity	% measured gas @ 20ppm SO ₂	ND
	CO sensitivity	% measured gas @ 400ppm CO	<20
	H ₂ sensitivity	% measured gas @ 400ppm H ₂	<15
	C ₂ H ₄ sensitivity	% measured gas @ 400ppm C ₂ H ₄	<nd< th=""></nd<>
	CO ₂ sensitivity	% measured gas @ 5% CO ₂	ND

KEY SPECIFICATIONS

Bias voltage mV (Working Electrode potential is above ground) +200 Temperature range °C -30 to 50 kPa 80 to 120 Pressure range Humidity range % rh continuous 15 to 90 Storage period months @ 3 to 20°C (stored in sealed pot) 6 Load resistor Ω (recommended) 10 to 47 Weight

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.