

NH3-A1 Ammonia Sensor



ND

<20

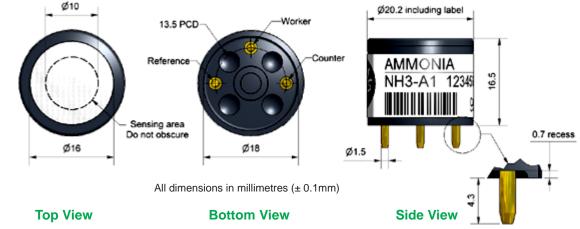
<15

<ND

ND

Specification echnical

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
ENVIRONMENTA		% (output @ -20°C/output @ 20°C) @ 20ppm % (output @ 50°C/output @ 20°C) @ 20ppm ppm equivalent change from 20°C ppm equivalent change from 20°C	ND ND ND ND
CROSS SENSITIVITY	H ₂ S sensitivity NO ₂ sensitivity Cl ₂ sensitivity NO sensitivity	% measured gas @ 20ppm H ₂ S % measured gas @ 20ppm NO ₂ % measured gas @ 10ppm Cl ₂ % measured gas @ 50ppm NO	<300 <-300 <-300 ND

KEY SPECIFICATIONS

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

% measured gas @ 20ppm

% measured gas @ 5%

% measured gas @ 400ppm

% measured gas @ 400ppm

% measured gas @ 400ppm C_2H_4

 SO_2

CO

 H_2

 $\bar{\text{CO}}_2$

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.

SO₂ sensitivity

C₂H₄ sensitivity

CO₂ sensitivity

sensitivity

sensitivity

CO