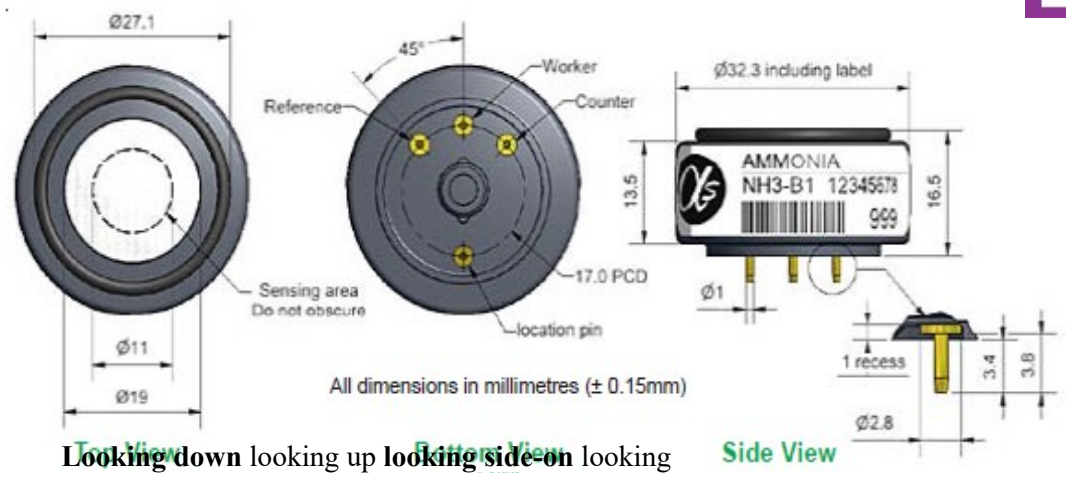
NH3-B1 Ammonia Sensor

Figure 1 Schematic diagram of NH3-B1



Looking down looking up **looking side-on** looking

function	sensitivity	**Sensitivity $_3$ in 50ppmNH (nA/ppm)**	20~60
	reaction time	Pulmonary ventilation was 180s, from zero to $_3$ t90 of 50ppmNH	< 150
	zero current	Equivalent ppm value in zero air	< ± 10
	range	Measuring limits (ppm) that guarantee product performance	100
	degree of linearity	The ppm value of the full scale error is linear from 0 to 70ppm	5~-5
	overload	Maximum ppm value of gas pulse stabilized reaction	200
life span	zero drift	Equivalent ppm values that change in the laboratory air from year to year	< 2
	sensitivity drift	Percentage change in laboratory air over the year, measured monthly	< 3
	working life	Number of months output drops to 80% of original signal (12 months guaranteed)	> 24
environment	-20°C sensitivity	**20ppmNH $_3$ at (-20°C output/20°C output)%**	nd
	Sensitivity at 50°C	**20ppmNH $_3$ at(output at 50°C/ output at 20°C)%**	nd
	-20°C when zero point	Change in equivalent ppm values with reference to 0℃20	nd
	50°C at zero point	Change in equivalent ppm values with reference to 20℃ zero	nd
cross sensitivity	H_2S	**Gas sensitivity percentage at 20ppmH $_2$ S**	< -200
	NO_2	**Percentage sensitivity of gas $_{measured\ at}$ 20ppmNO**	< -200
	Cl_2	Sensitivity percentage of gas measured $_2$ at 10ppmCl	< -400
	NO	Gas sensitivity percentage measured at 50ppmNO	< -300
	SO_2	**Gas sensitivity percentage $_2$ at 20ppmSO**	< -300
	CO	Gas sensitivity percentage measured at 400ppmCO	< 20
	H_2	Gas sensitivity percentage measured at 400ppmH $_2$	< 15
	C_2H_4	Gas sensitivity percentage measured at 400ppmC $_2$ H $_4$	nd
	CO_2	Sensitivity percentage of gas measured at 5%Vol CO $_2$	nd
key parameter	bias voltage	mV (working electrode potential greater than zero)	200
	temperature range	℃	-30~50
	pressure limit	kPa	80~120
	Humidity range	Percentage of continuous relative humidity	15~90
	Storage period	Number of months for preservation from 3 to 20℃ (to be kept in the original container)	6
	load resistance	Ω（recommend）	10~47
	weight	g	< 13

Figure 2 Response to Gas

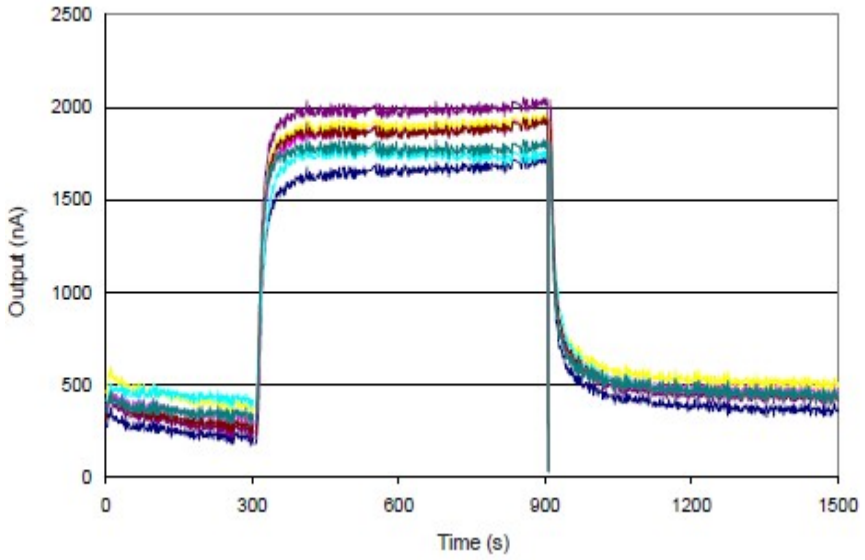


Figure 2 shows the typical response of the transmitter to 50ppm NH **at 20℃** $_3$**.**

t **is** $_{50}$ **significantly larger than** $_t$ **More (30Vs.150s) At the same time, it shows the ability of the sensor to respond quickly to NH** $_3$**.**

Figure 3 Linearity

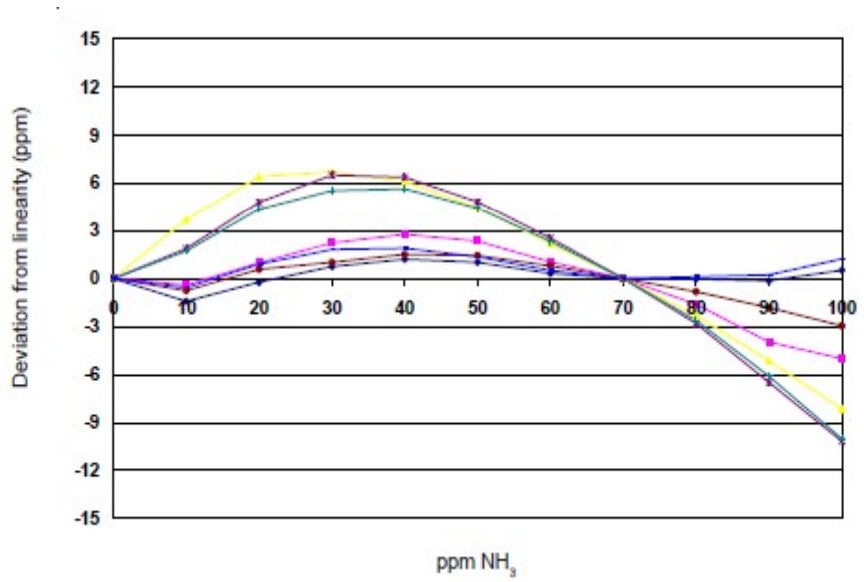


Figure 3 shows the deviation of the sensor's linear response $_3$ **at 0-100ppm NH and the reference concentration at 0-70 ppm.**

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