

NH3-AF Ammonia Sensor



Figure 1 Schematic Diagram of NH3-AF



function	sensitivity	Sensitivity₃ in 50ppmNH₃ (nA/ppm)	15~40
	reaction time	Purge for 300s, from zero to t₉₀ of 50ppmNH₃	< 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 40ppm	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	50ppmNH₃ at (-20°C output/20°C output)%	100~110
	Sensitivity at 50°C	50ppmNH₃ at(50°C output/20°C output)%	100~110
	-20°C when zero point	Change in equivalent ppm values with reference to 20°C zero	-10~0
	50°C at zero point	Change in equivalent ppm values with reference to 20°C zero	5~20
cross sensitivity	H ₂ S	Gas sensitivity percentage at 20ppmH₂S	<±3
	NO ₂	Percentage sensitivity of gas measured at 20ppmNO	< -60
	Cl ₂	Sensitivity percentage of gas measured at 10ppmCl₂	< -300
	NO	Gas sensitivity percentage measured at 50ppmNO	< 20
	SO ₂	Gas sensitivity percentage at 20ppmSO₂	nd
	CO	Gas sensitivity percentage measured at 400ppmCO	< 25
	H ₂	Gas sensitivity percentage measured at 400ppmH₂	< 15
	C ₂ H ₄	Gas sensitivity percentage measured at 400ppmC₂H₄	< 2
CO ₂	5% Vol CO₂ when measured percentage sensitivity of gas	0	
key parameter	bias voltage	mV (working electrode potential greater than zero)	+200
	temperature range	°C	-30~50
	pressure limit	kPa	80~120
	Humidity range	Percentage of continuous relative humidity	15~90
	Storage period	Number of months for preservation at 3~20°C (to be preserved in a sealed container)	6
	load resistance	Ω (recommend)	10~47
	weight	g	< 6

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