H2-BF hydrogen sensor

Top view Bottom view Side view

All dimensions are in mm (±0. 1mm)

function	Sensitivity response time	Sensitivity $_2$ in 400ppmH (nA/ppm)	10~25
		Time $_2$ to 400ppmH from zero (s)	< 55
	Zero point current	Equivalent ppm value at zero altitude air	< ±15
	resolution	RMS noise (equivalent ppm value)	< 0.8
	range linearity overload	Measuring limits (ppm) that guarantee product performance	5000
		The ppm value of the full scale error is linear from 0 to 4000ppm and shows the maximum ppm for gas pulse stabilization	-200~-500
			20000
life span	Zero drift	Equivalent ppm values that change in the laboratory air from year to year	< 10
	sensitivity drift	Percentage change in laboratory air over the year, measured monthly	nd >
	working life	Number of months to which the output is reduced to 80% of the original signal (24 months guaranteed)	24
environment	-20°C sensitivity	400ppmH $_2$ at (-20°C output/20°C output)%	10~40
	50°C sensitivity	Equivalent ppm value variation at 400ppmH $_2$ (% of output	190~220
	-20°C is the zero point 50°C is the zero point	at 50°C/ output at 20°C), with reference to 20°C zero point	30~40
		Change in equivalent ppm values with reference to 20°C zero	-5~-20
cross connection sensitivity	filter capacity	ppm· hour H_2S	250000
	NO_2	Gas sensitivity percentage $_2$ measured at 10ppmNO	< 1
	Cl_2	Gas sensitivity percentage $_2$ measured	< 1
	NO		< 1
	SO_2	at 10 ppm Cl, 50 ppm NO, 20ppmSO	< 1
	CO	$_2$, 400 ppm CO, 20ppmH $_2$ S, 400 ppm	< 2
	H_2S		< 1
	C_2H_4	C, $_2$ 20 ppm H $_4$, 400 ppm NH, and	< 60
	NH_3	5%CO $_2$ measured.	< 1
	CO_2		< 1
key parameter	temperature range	℃	-30~50
	pressure limit	kPa	80~120
	Humidity range storage life load resistance weight	Number of months for continuous relative humidity percentage 3~20℃ (to be stored in a sealed tank)Ω (recommended)	15~90 6 10~ 47 <
		g	13

Figure 1 Sensitivity Temperature Characteristics

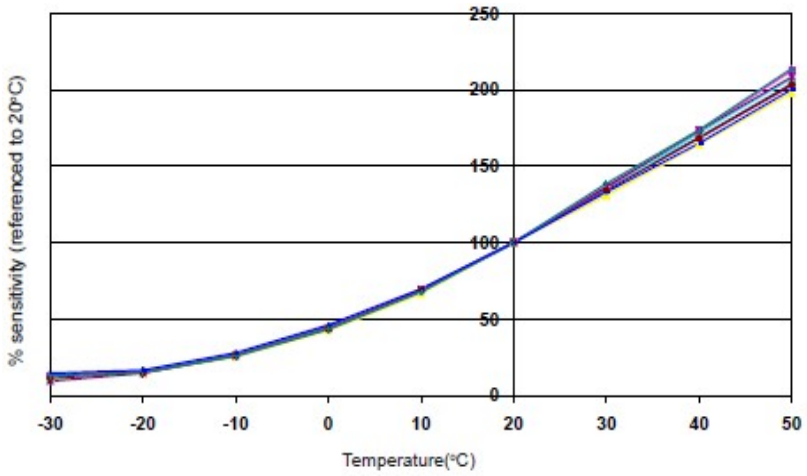


Figure 1 shows the temperature characteristics of sensitivity at 400ppm H_2.

To ensure accurate measurement, sensitivity temperature correction is required.

Figure 2 Zero Temperature Characteristics

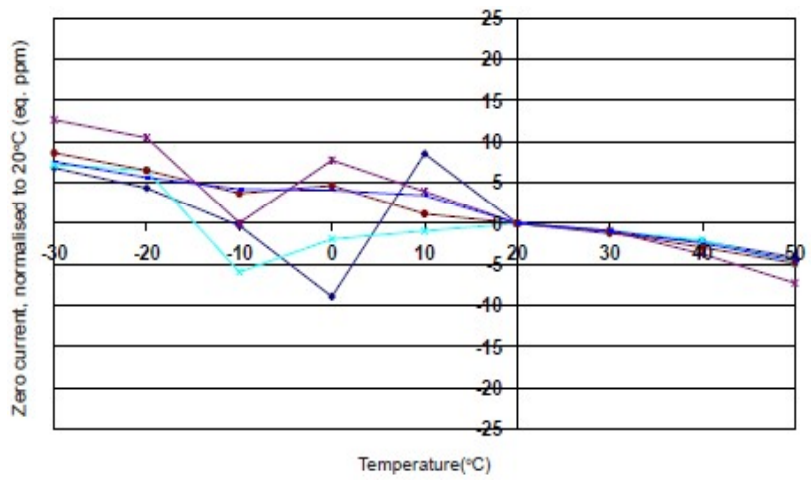
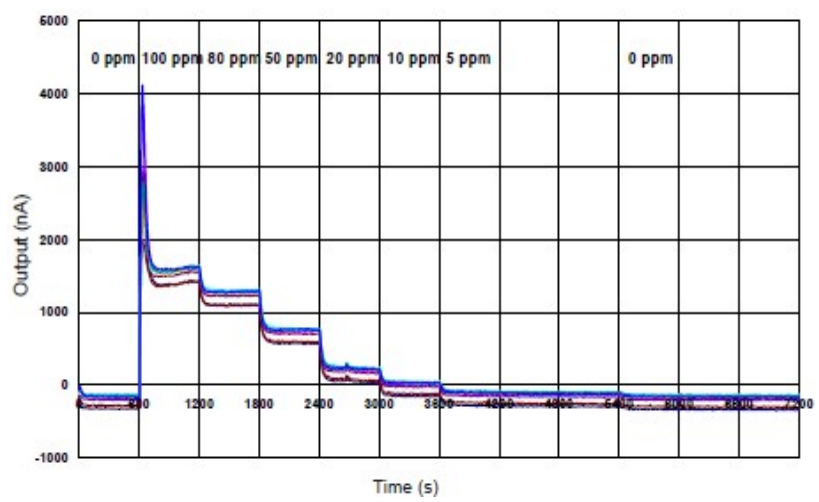


Figure 2 shows the variation of zero current with temperature, with reference to 20℃.

Figure 3 Linearity at 1000ppm



The sensor can be used for leak detection and process control due to its good response characteristics, which can detect as low as 5ppm H_2.

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