H2O2-B1 Peroxide Sensor

Figure 1 H2O2-B1 schematic diagram

Top view Bottom view Side view

function	(tested with CO as a substitute gas)		
	sensitivity	Sensitivity in 400ppmCO (nA/ppm)	50~90
	reaction time	Time from zero to 400ppmCO t90 (s)	< 25
	zero current	Equivalent ppm value of zero air	< ±4
	resolution ratio	RMS noise (equivalent ppm value)	< 0.5
	range	Measuring limits (ppm) that guarantee product performance	2000
	Linearly	The ppm value of the full scale error, which shows a line between 0 and 1000 ppm when the gas pulse stabilizes the reaction at its maximum ppm value	< ±30
	overload		5000
life span	zero drift	Equivalent ppm values that change in the laboratory air from year to year	< 0.1
	sensitivity drift	Percentage change in laboratory air over the year, measured monthly	< 3
	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	400ppmCO when, (output at-20°C/ output at 20°C)%	70~88
	Sensitivity at 50°C	400ppmCO when, (50°C output/20°C output)%	102~115
	-20°C when zero point	Change in equivalent ppm values with reference to 20°C zero	< ±1
	50°C at zero point	Change in equivalent ppm values with reference to 0°C 20	< ±6
cross sensitivity	H_2S	Gas sensitivity percentage at 20ppmH_2S	< 200
	NO_2	Gas sensitivity percentage measured at 10ppmNO_2	< 50
	Cl_2	Sensitivity percentage of gas measured at 10ppmCl_2	< -1
	NO	Gas sensitivity percentage measured at 50ppmNO	< 80
	SO_2	Gas sensitivity percentage at 20ppmSO_2	< 50
	H_2	Gas sensitivity percentage measured at 400ppmH_2 (20℃)	< 65
	C_2H_4	Gas sensitivity percentage measured at 400ppmC_2H_4	< 65
	NH_3	Percentage sensitivity of gas at 20ppmNH_3	< 0.1
key parameter	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 a sealed tank)	6
	load resistance	Ω（recommend）	10~47
	weight	g	< 13

Figure 2 Zero Temperature Characteristics

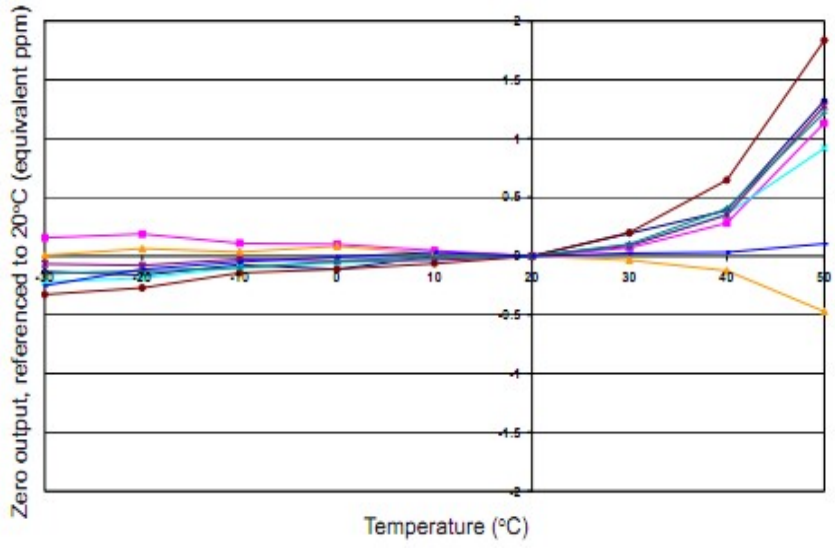

Figure 2 shows the sensor zero point change caused by temperature variation, expressed in equivalent ppm, with reference to the zero point at 20℃.

Data is collected from typical batch sensors.

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