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Figure 1 NO2-4	A1 Schematic D 13.5 P Referenc	CD Worker Counter	PATENT
ØI			0.7 reces
Тор V			ide View
PERFORMANCE	Sensitivity Response time Zero current Resolution Range Linearity Overgas limit	nA/ppm in 10ppm NO ₂ t_{90} (s) from zero to 10ppm NO ₂ (33 ppm equivalent in zero air RMS noise (ppm equivalent) (33 Ω ppm NO ₂ limit of performance ward ppm error at full scale, linear at zer maximum ppm for stable response	 Load Resistor) < ranty ro and 10ppm NO₂
LIFETIME	Zero drift Sensitivity drift Operating life	ppm equivalent change/year in lab % change/year in lab air, monthly months until 80% original signal (2	test < -20 t
ENVIRONMENTA	Sensitivity @ -20°	C% (output @ -20°C/output @ 20°C) C % (output @ 50°C/output @ 20°C ppm equivalent change from 20°C ppm equivalent change from 20°C) @ 5ppm NO_2^2 105 to
CROSS SENSITIVITY	H_2S sensitivity CI_2 sensitivity NO sensitivity SO_2 sensitivity CO sensitivity H_2 sensitivity C_2H_4 sensitivity NH_3 sensitivity CO_2 sensitivity O_3 sensitivity	% measured gas @ 10ppm%% measured gas @ 50ppm%% measured gas @ 20ppm%% measured gas @ 400ppm%% measured gas @ 400ppm%% measured gas @ 50ppm%% measured gas @ 20ppm%% measured gas @ 5% volume%	H ₂ S Cl ₂ NO SO ₂ CO H ₂ C ₂ H ₄ NH ₃ CO ₂ O ₃
	Temperature range Pressure range Humidity range Storage period Load resistor Weight	e °C kPa % rh continuous months @ 3 to 20°C (stored in sea Ω (for optimum performance) g dispose of any electronic sensor, component or ins or its distributor for disposal instructions.	

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NO2-A1 Performance Data

Figure 2 Sensitivity Temperature Dependence

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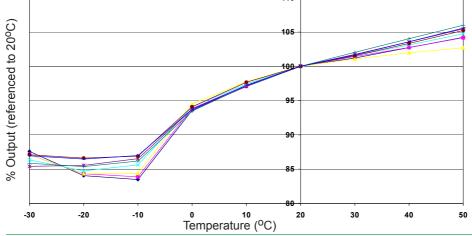


Figure 2 shows the variation in sensitivity caused by changes in temperature.

This data is taken from a typical batch of sensors.

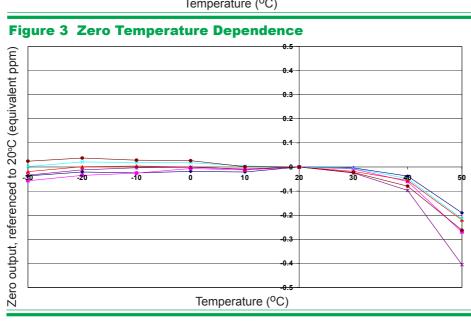


Figure 3 shows the variation in zero output caused by changes in temperature, expressed as ppm gas equivalent, referenced to zero at 20°C.

This data is taken from a typical batch of sensors.

Figure 4 Humidity plus Temperature Transient Response

0.5 0.3 0.1 0.1 0.1 0.1 0.3 0.5 0.5 0.7 Time (seconds)

Figure 4 shows typical sensor outputs for a group of sensors exposed to exhaled breath for 4 cycles over 240 seconds.

This is an extreme test for such sensors and the shift in the base line of no more than 0.5 ppm shows a very strong resistance to this test.

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