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## **HCL-B1** Hydrogen Chloride Sensor



Figure 1 HCL-B1 Schematic Diagram			PATENTED
	-	HYDROGEN CHLORIE HCL-B1 123456789 999 Jocation pin sions in millimetres (± 0.1mm)	3.4
Top V	Iew	Bottom View Side View	
PERFORMANCE	Sensitivity Response time Zero current Resolution Range Linearity Overgas limit	nA/ppm in 25ppm HCl t <sub>90</sub> (s) from zero to 25ppm HCl ppm equivalent in zero air RMS noise (ppm equivalent) ppm HCl limit of performance warranty ppm error at full scale, linear at zero, 40ppm HCl maximum ppm for stable response to gas pulse	150 to 250 < 200 0 to 3 < 0.1 100 0 to 6 200
LIFETIME	Zero drift Sensitivity drift Operating life	ppm equivalent change/year in lab air % change/year in lab air, monthly test months until 80% original signal (12 month warrar	nd nd nted) nd
ENVIRONMENTA	Sensitivity @ 0°C Sensitivity @ 50°C Zero @ -20°C	% (output @ 0°C/output @ 20°C) @ 25ppm HCl % (output @ 50°C/output @ 20°C) @ 25ppm HCl ppm equivalent change from 20°C ppm equivalent change from 20°C	80 to 95 100 to 108 < +0 to -1.0 < +0.5 to +2.5
CROSS SENSITIVITY	$H_2S$ sensitivity $NO_2$ sensitivity $CI_2$ sensitivity NO sensitivity $SO_2$ sensitivity CO sensitivity $H_2$ sensitivity $C_2H_4$ sensitivity $NH_3$ sensitivity $CO_2$ sensitivity	% measured gas @ ppm $H_2S$ % measured gas @ ppm $NO_2$ % measured gas @ ppm $OI_2$ % measured gas @ ppm $OI_2$ % measured gas @ ppm $SO_2$ (transient peak) % measured gas @ ppm $OO$ % measured gas @ ppm $H_2$ % measured gas @ ppm $OI_2H_4$ % measured gas @ ppm $OI_2H_4$ % measured gas @ ppm $OI_2$	< 280 < -150 < -100 < 2 < 1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1
KEY SPECIFICATIONS	Temperature range S Pressure range Humidity range Storage period Load resistor Bias voltage Weight	°C kPa % rh continuous months @ 3 to 20°C (stored in original container) Ω (recommended) mV g	-30 to +50 80 to 120 15 to 90 6 10 to 33 not required < 13

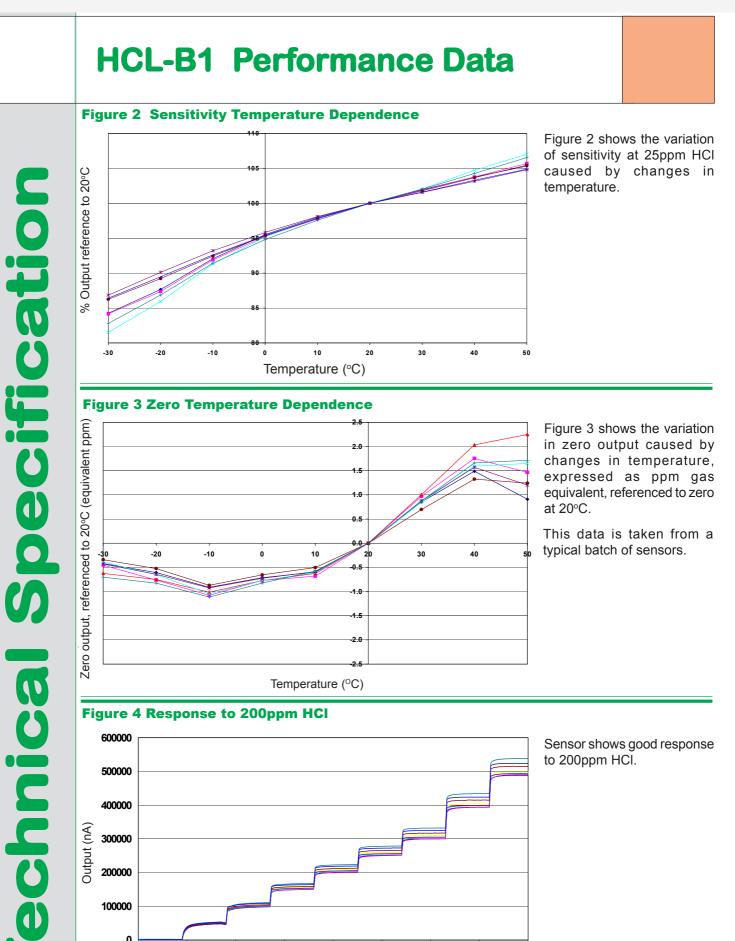
the information provided is given without legal responsibility. Customers should test under their own conditions, to ensure that the sensors are suitable for their own requirements.

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8000

Time (seconds)

10000

12000

14000

16000

6000

4000