



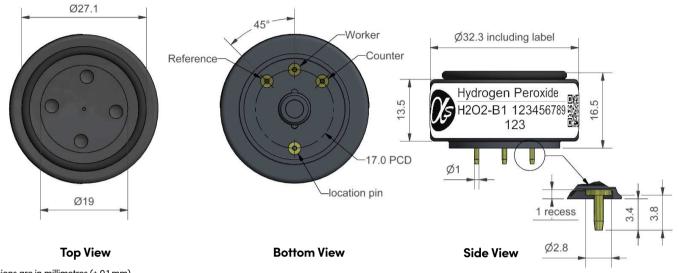
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Technical specifications Version 1.0

H2O2-B1 Hydrogen Peroxide Sensor



Dimensions are in millimetres (± 0.1 mm).

Performance (tested with surrogate gas CO)	Sensitivity Response time Zero current Resolution Range Linearity Overgas limit	nA/ppm in 400ppm CO t90 (s) from zero to 400ppm CO ppm equivalent in zero air RMS noise (ppm equivalent) ppm limit of performance warranty ppm CO error at full scale, linear at zero, 1000ppm CO maximum ppm for stable response to gas pulse		50 to 90 < 25 < ± 4 < 0.5 2,000 < ± 30 5,000
Lifetime	Zero drift	ppm equivalent change/year in lab air		< 0.1
	Sensitivity drift	% change/year in lab air, monthly test		< 3
	Operating life	months until 80% original signal (24-month warranted)		> 24
Environmental	Sensitivity @ -20°C	% (output @ -20°C/output @ 20°C) @ 400ppm CO		70 to 88
	Sensitivity @ 50°C	% (output @ 50°C/output @ 20°C) @ 400ppm CO		102 to 115
	Zero @ -20°C	ppm equivalent change from 20°C		< ± 1
	Zero @ 50°C	ppm equivalent change from 20°C		< ± 6
Cross Sensitivity	H2SsensitivityNO2sensitivityCl2sensitivityNOsensitivitySO2sensitivityH2sensitivityC2H4sensitivityNH3sensitivity	% measured gas @ 20ppm % measured gas @ 10ppm % measured gas @ 10ppm % measured gas @ 50ppm % measured gas @ 20ppm % measured gas @ 400ppm % measured gas @ 20ppm	H_2S NO_2 CI_2 NO SO_2 H_2 at 20°C C_2H_4 NH_3	< 200 < 50 < -1 < 80 < 50 < 65 < 65 < 0.1
Key Specifications	Temperature range	°C		-30 to 50
	Pressure range	kPa		80 to 120
	Humidity range	% rh continuous		15 to 90
	Storage period	months @ 3 to 20°C (stored in sealed pot)		6
	Load resistor	Ω (recommended)		10 to 47
	Weight	g		< 13





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Figure 1 Zero Temperature Dependence

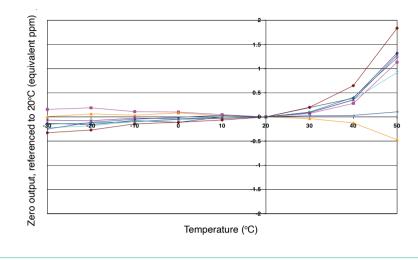


Figure 1 shows the variation in zero output caused by changes in temperature, expressed as ppm gas equivalent, referenced to zero at 20°C.

This data is taken from a typical batch of sensors.

NOTE: All sensors are tested at ambient environmental conditions, with 10 ohm load resistor, unless otherwise stated. As applications of use are outside our control, 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.

At the end of the product's life, do not dispose of any electronic sensor, component or instrument in the domestic waste, but contact the instrument manufacturer, Alphasense or its distributor for disposal instructions. NOTE: all sensors are tested at ambient environmental conditions unless otherwise stated. As applications of use are outside our control, 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.

In the interest of continued product improvement, we reserve the right to change design features and specifications without prior notification. The data contained in this document is for guidance only. Alphasense Ltd accepts no liability for any consequential losses, injury or damage resulting from the use of this document or the information contained within.(©ALPHASENSE LTD) Doc. Ref. H2O2-B1/SEP22