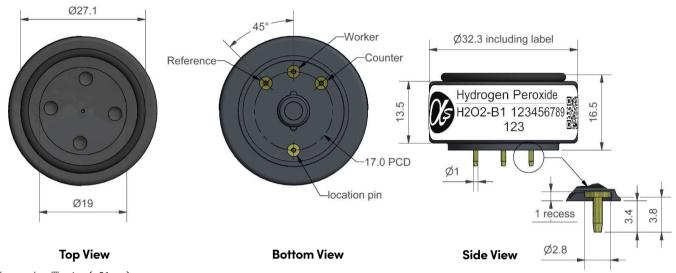






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H2O2-B1 Hydrogen Peroxide Sensor



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 CC ppm equivalent in zero air RMS noise (ppm equivalent) ppm limit of performance warro ppm CO error at full scale, linea maximum ppm for stable respo	anty Ir at zero, 1000ppm CO	50 to 90 < 25 < ± 4 < 0.5 2,000 < ± 30 5,000
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 (24-month warranted)		< 0.1 < 3 > 24
Environmental	Sensitivity @ -20°C Sensitivity @ 50°C Zero @ -20°C Zero @ 50°C	% (output @ -20°C/output @ 20°C) @ 400ppm CO % (output @ 50°C/output @ 20°C) @ 400ppm CO ppm equivalent change from 20°C ppm equivalent change from 20°C		70 to 88 102 to 115 < ± 1 < ± 6
Cross Sensitivity	H_2S sensitivity NO_2 sensitivity CI_2 sensitivity SO_2	% measured gas @ 20ppm % measured gas @ 10ppm % measured gas @ 10ppm % measured gas @ 50ppm % measured gas @ 20ppm % measured gas @ 400ppm % measured gas @ 400ppm % measured gas @ 20ppm	H_2S NO_2 CI_2 NO SO_2 H_2 at $20^{\circ}C$ C_2H_4 NH_3	< 200 < 50 < -1 < 80 < 50 < 65 < 65 < 0.1
Key Specifications	Temperature range Pressure range Humidity range Storage period Load resistor Weight	$^{\circ}\text{C}$ kPa $^{\circ}\text{rh}$ continuous months @ 3 to 20 $^{\circ}\text{C}$ (stored in sealed pot) Ω (recommended) g		-30 to 50 80 to 120 15 to 90 6 10 to 47 < 13







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Figure 1 Zero Temperature Dependence

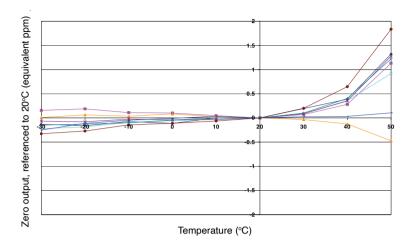


Figure 1 shows the variation in zero output caused by changes in temperature, expressed as ppm gas equivalent, referenced to zero at 20°C.

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