

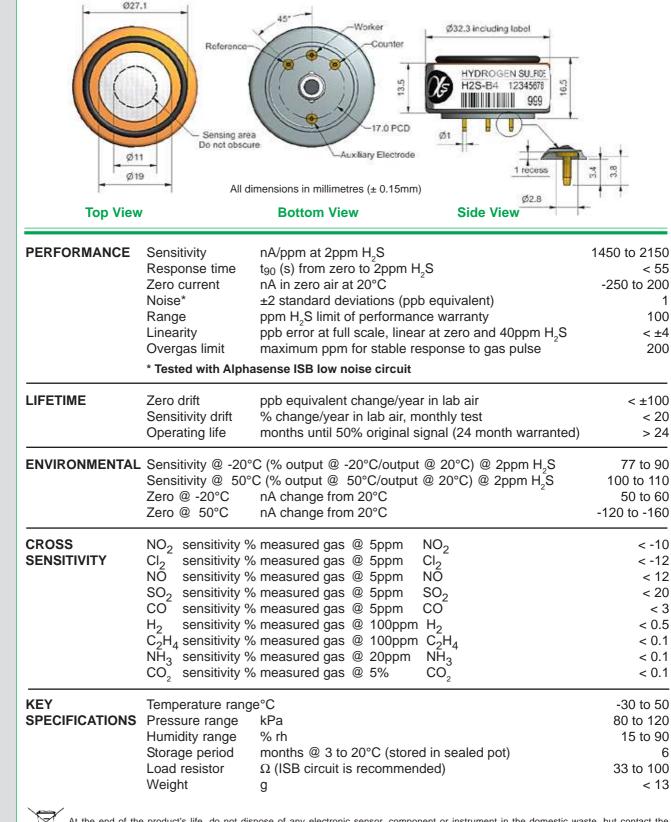
# H2S-B4 Hydrogen Sulfide Sensor **4-Electrode**



1

6

#### Figure 1 H2S-B4 Schematic Diagram



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, with 47 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.



# H2S-B4 Performance Data

### Figure 2 Sensitivity Temperature Dependence



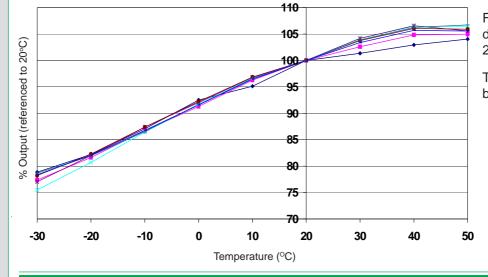


Figure 2 shows the temperature dependence of sensitivity at  $2ppm H_2S$ .

This data is taken from a typical batch of sensors.

### Figure 3 Zero Temperature Dependence

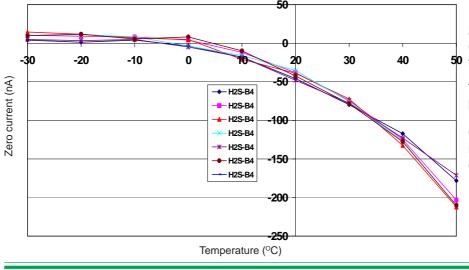


Figure 3 shows the variation in zero output of the working electrode caused by changes in temperature, expressed as nA.

This data is taken from a typical batch of sensors.

Contact Alphasense for futher information on zero current correction.

## Figure 4 Linearity to 200 ppb $H_2$ S

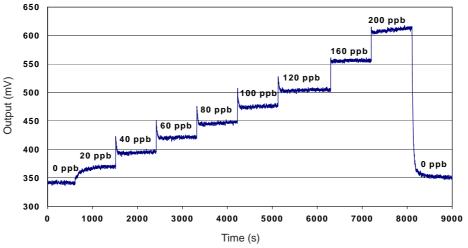


Figure 4 shows response to 200ppb  $H_2S$ .

Use of Alphasense ISB circuit reduces noise to 1ppb, with the opportunity of digital smooting to reduce noise even further

For further information on the performance of this sensor, on other sensors in the range or any other subject, please contact Alphasense Ltd. For Application Notes visit "www.alphasense.com".

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. H2SB4/MAR17