

SOH-A2

Note: Above 85% rh and 40<sup>O</sup>C a maximum continuous exposure period of 10 days is warranted. Where such exposure occurs the sensor will recover normal electrolyte volumes, when allowed to rest at lower %rh and temperature levels for several days.





Specification

**Technical** 

# **Performance Data** Sulfur Dioxide Channel

Figure 1 SO<sub>2</sub> Channel response to 20ppm SO<sub>2</sub>

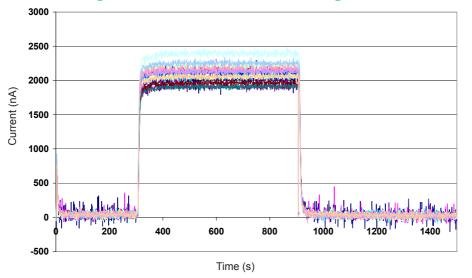


Figure 1 shows transient response to breathing on the sensor: combined temperature and humidity transient response



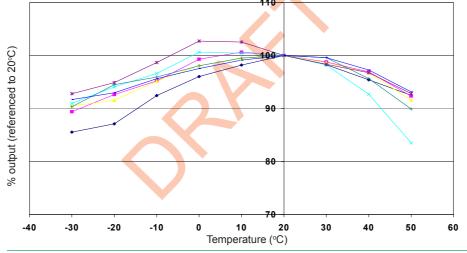


Figure 2 shows the % variation in sensitivity caused by changes in temperature.

The data is taken from a typical batch of sensors.

### Figure 3 Channel Zero Temperature Dependence

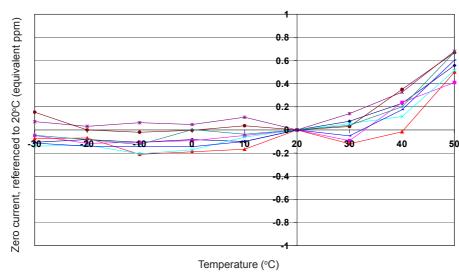
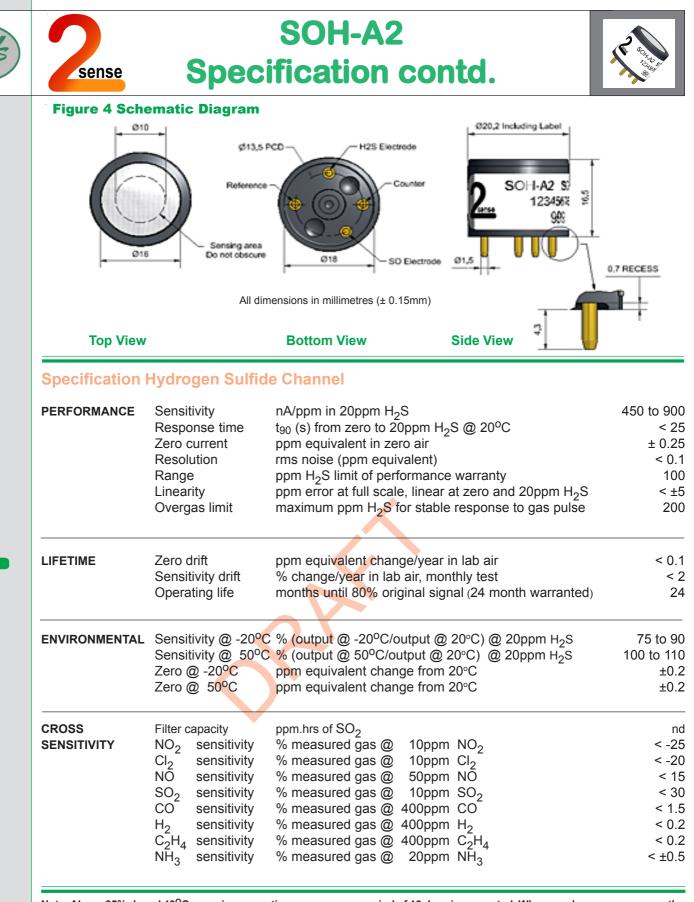


Figure 3 shows the variation in zero output caused by changes in temperature, expressed as ppm gas equivalent, referenced to the zero at 20°C.

This data is taken from a typical batch of sensors.



Note: Above 85% rh and 40<sup>O</sup>C a maximum continuous exposure period of 10 days is warranted. Where such exposure occurs the sensor will recover normal electrolyte volumes, when allowed to rest at lower %rh and temperature levels for several days.

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.



# **Performance Data** Hydrogen Sulfide Channel

#### Figure 5 H<sub>2</sub>S Channel Response to 25ppm H<sub>2</sub>S

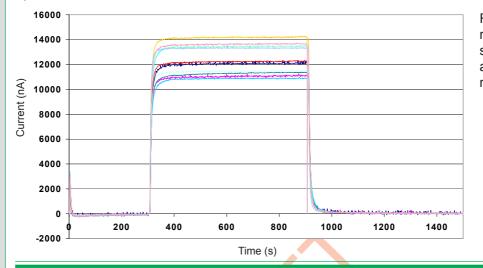


Figure 5 shows transient response to breathing on the sensor: combined temperature and humidity transient response

#### Figure 6 H<sub>2</sub>S Channel Sensitivity Temperature Dependence

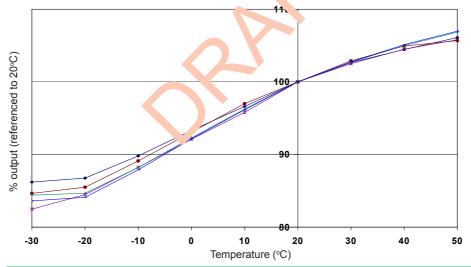


Figure 6 shows the % variation in sensitivity caused by changes in temperature.

The data is taken from a typical batch of sensors.



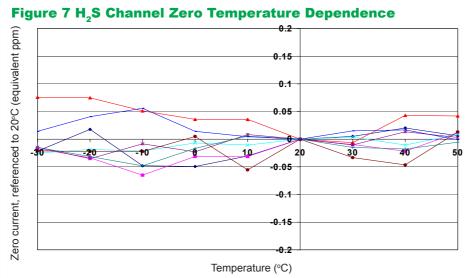


Figure 7 shows the variation in zero output caused by changes in temperature, expressed as ppm gas equivalent, referenced to the zero at 20°C.

This data is taken from a typical batch of sensors.

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".

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