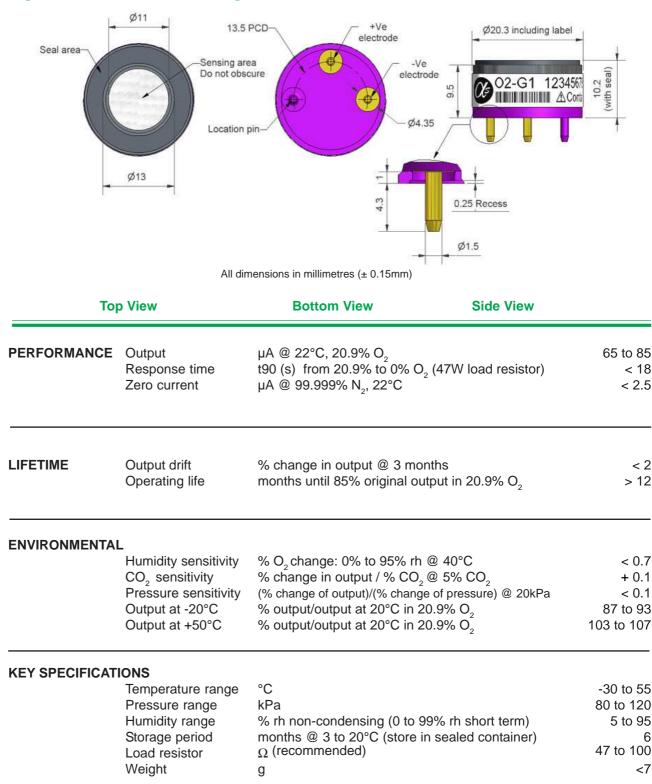


## **O2-G1 Oxygen Sensor Miniature Size**



6

## Figure 1 02-G1 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.



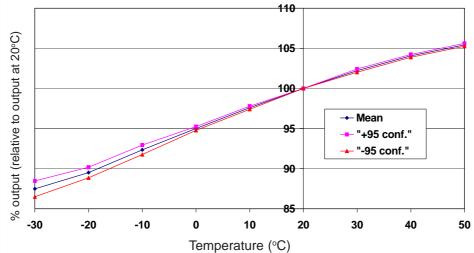


Figure 2 shows the variation of output caused by changes in temperature in 20.9% oxygen.

All capillary oxygen sensors show a change in signal with temperature, and the very repeatable 95% confidence intervals for the O2-G1 are shown.

## **Pressure Step Performance** Figure 3 200 180 160 140 Output (%0, 120 100 80 60 40 20 0 0 50 100 150 200 250 Time (s)

Figure 3 shows how a 25 kPa pressure step change causes a signal transient that decays reproducibly. Negative pressure changes cause a negative transient.

The small shift in final output is less than 10% of the pressure change, so 10kPa pressure step shifts output by less than 1% (<0.2% oxygen).



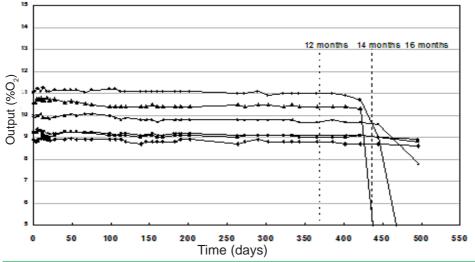


Figure 4 shows long term stability data for the O2-G1 sensors.

All sensors show stable outputs beyond the 12 month period.

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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