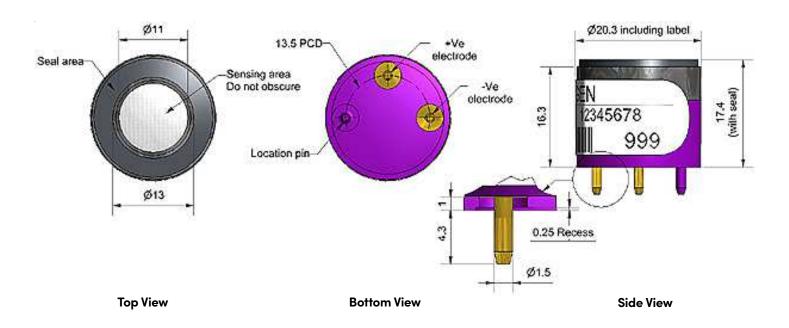
O2-W2 Oxygen Sensor



Dimensions are in millimetres (± 0.15 mm).

Key Specifications

Performance	Output Response time Zero current Linearity	μA @ 20.9% O_2 t90 (s) from 20.9% to 0% O_2 μA in N_2 % O_2 deviation @ 10% O_2	80 to 120 < 15 < 2.5 0.6
Lifetime	Output drift Operating life	% change in output @ 3 months Months until 85% original output in 20.9% O ₂	< 1 > 24
Environmental	Humidity sensitivity CO ₂ sensitivity Pressure sensitivity	% O ₂ change: 0% to 95% rh @ 40°C % (change O ₂ reading)/% CO ₂ @ 5% CO ₂ (% change of output)/(% change of pressure) @ 20kPa	< 0.7 0.1 < 0.1

°C

 Ω (recommended)

mm (including label)

mm (including foam ring) 17.4
g < 16

邮编: 518031

深圳市新世联科技有限公司

% rh non-condensing (0 to 99% rh short term)

Months @ 3 to 20°C (store in sealed pot, open circuit)

地址: 深圳市深南中路2066号华能大厦712室 电话: 0755-83680810 83680820 83680830 83680860 网址: www.apollounion.com

Temperature range

Pressure range

Humidity range

Storage period

Load resistor

Diameter

Height

Weight

传真: 0755-83680866 邮箱: sales@apollounion.com

-30 to 55

80 to 120

47 to 100

20.0

5 to 95

6

Figure 1 Output Temperature Dependence

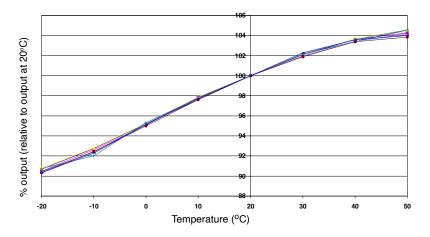
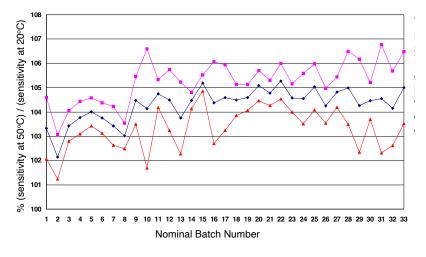


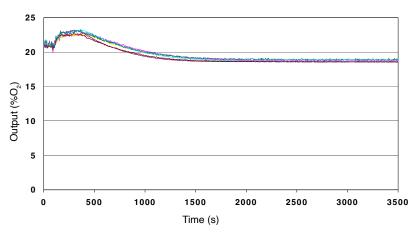
Figure 1 shows the variation in sensitivity caused by changes in temperature. Temperature dependence is very repeatable.

Figure 2 Sensitivity at 50°C



This plot of the mean and ±95% confidence intervals for 34 batches shows superior repeatability of the sensitivity dependence from batch to batch, giving confidence when setting temperature compensation in your gas detector.

Figure 3 Thermal Transient Performance



Sensors were thermally shocked from 20°C to -30°C. Consistent manufacture and good design ensure that there are no thermal spikes which can cause an alarm.

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.

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. O2-W2/JUL22

深圳市新世联科技有限公司

地址: 深圳市深南中路2066号华能大厦712室 电话: 0755-83680810 83680820 83680830 83680860 网址: www.apollounion.com 邮编: 518031 传真: 0755-83680866 邮箱: sales@apollounion.co