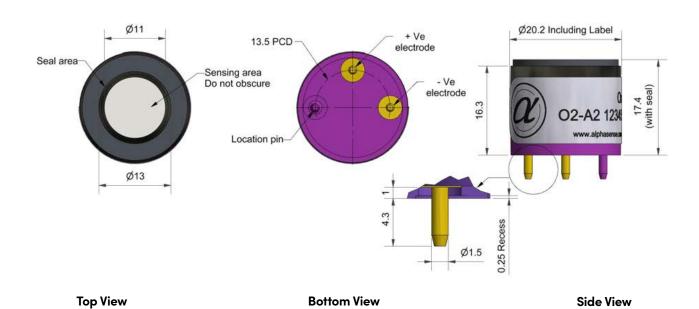
## **Apollosense**

## **O2-A2 Oxygen Sensor**



Dimensions are in millimetres (± 0.15 mm).

**Key Specifications** 

Performance	Output Response time Zero current Linearity	$\mu A \ @ \ 20.9\% \ O_2$ t90 (s) from 20.9% to 0% $O_2$ $\mu A$ 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 <sub>2</sub>	< 1 > 24
Environmental	Humidity sensitivity CO <sub>2</sub> sensitivity Pressure sensitivity	% O₂ change: 0% to 95% rh @ 40°C % (change O₂ reading)/% CO₂ @ 5% CO₂ (% change of output)/(% change of pressure) @ 20kPa	< 0.7 0.1 < 0.1

Temperature range	°C	-30 to 5
Pressure range	kPa	80 to 120
Humidity range	% rh non-condensing (0 to 99% rh short term)	5 to 9
Storage period	Months @ 3 to 20°C (store in sealed pot, open circuit)	(
Load resistor	$\Omega$ (recommended)	47 to 100
Diameter	mm (including label)	20.0
Height	mm (including foam ring)	17.
Weight	g	< 1

## **Apollosense**

Figure 1 Output Temperature Dependence

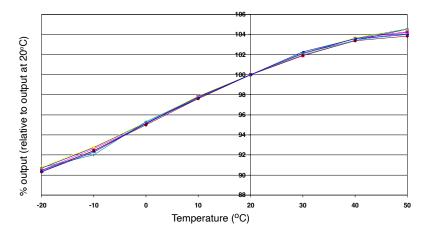
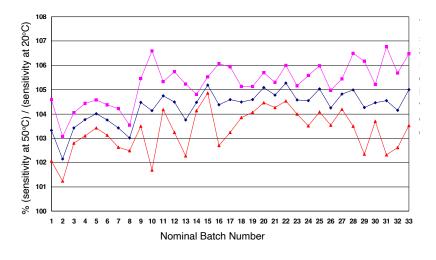


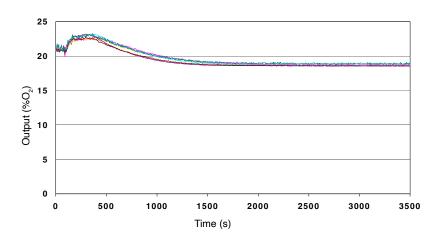
Figure 1 shows the variation in sensitivity caused by changes in temperature. Temperature dependence is very repeatable.

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.

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