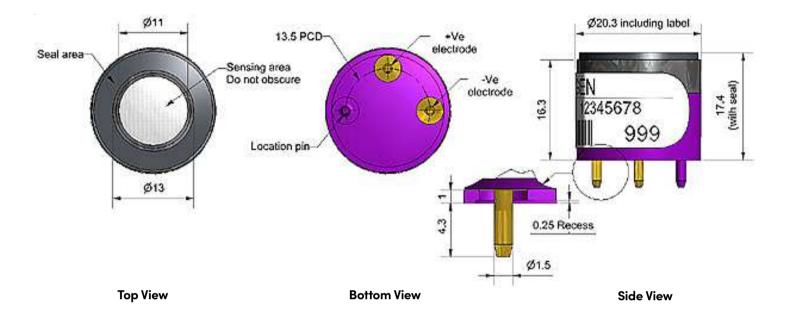




Clphasense

O2-A2 Oxygen Sensor



Dimensions are in millimetres (± 0.15 mm).

Performance	Output	μA @ 20.9% O2	80 to 120
	Response time	t90 (s) from 20.9% to 0% O2	< 15
	Zero current	μA in N2	< 2.5
	Linearity	% O2 deviation @ 10% O2	0.6
Lifetime	Output drift	% change in output @ 3 months	< 1
	Operating life	Months until 85% original output in 20.9% O₂	> 24
Environmental	Humidity sensitivity	% O2 change: 0% to 95% rh @ 40°C	< 0.7
	CO2 sensitivity	% (change O2 reading)/% CO2 @ 5% CO2	0.1
	Pressure sensitivity	(% change of output)/(% change of pressure) @ 20kPa	< 0.1
Key Specifications	Temperature range	°C	-30 to 55
	Pressure range	kPa	80 to 120
	Humidity range	% rh non-condensing (0 to 99% rh short term)	5 to 95
	Storage period	Months @ 3 to 20°C (store in sealed pot, open circuit)	6
	Load resistor	Ω (recommended)	47 to 100
	Diameter	mm (including label)	20.0
	Height	mm (including foam ring)	17.4
	Weight	g	< 16

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





Instrument Expert Original factory packaging www.dorgean.com



Technical specifications Version 1.0

Figure 1 Output Temperature Dependence

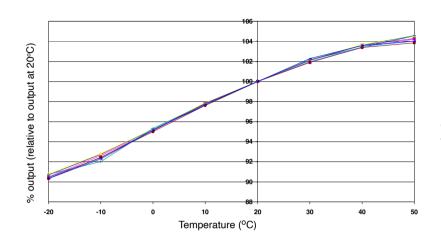
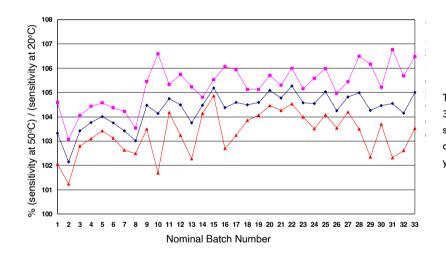


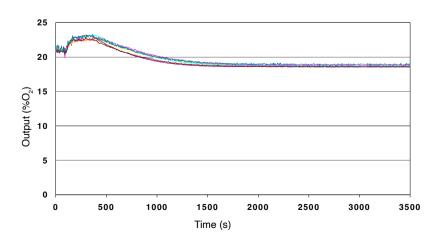
Figure 1 shows the variation in sensitivity caused by changes in temperature. Temperature dependence is very repeatable.

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.





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.

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