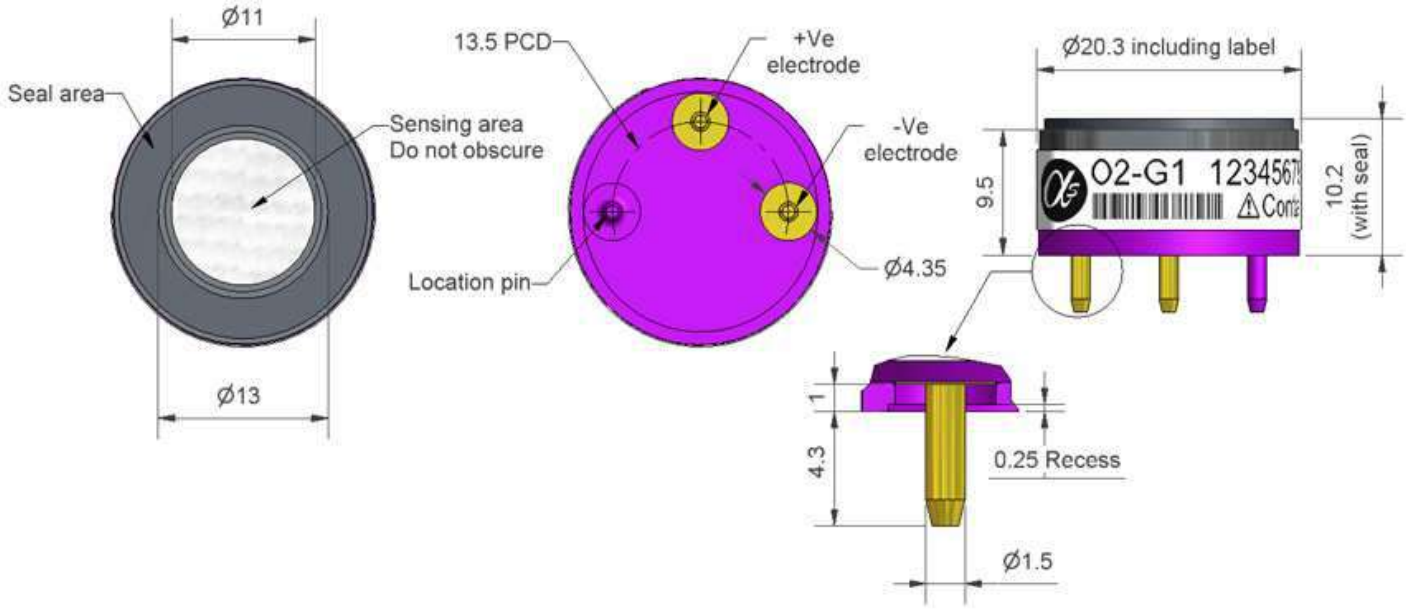
ЗАКАЗАТЬ: O2-G1 сенсор кислорода

O2-G1 Oxygen Sensor – Miniature size



Top View **Bottom View** **Side View**

Dimensions are in millimetres (± 0.15 mm).

Performance	Output	µA @ 22°C, 20.9% O_2	65 to 85
	Response time	t90 (s) from 20.9% to 0% O_2 (47W load resistor)	< 18
	Zero current	µA @ 99.999% N_2, 22°C	< 2.5
Lifetime	Output drift	% change in output @ 3 months	< 2
	Operating life	months until 85% original output in 20.9% O_2	> 12
Environmental	Humidity sensitivity	% O_2 change: 0% to 95% rh @ 40°C	< 0.7
	CO_2 sensitivity	% change in output / % CO2 @ 5% CO_2	+ 0.1
	Pressure sensitivity	(% change of output)/(% change of pressure) @ 20kPa	< 0.1
	Output at -20°C	% output/output at 20°C in 20.9% O_2	87 to 93
	Output at +50°C	% output/output at 20°C in 20.9% O_2	103 to 107
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 container)	6
	Load resistor	Ω (recommended)	47 to 100
	Weight	g	< 7

Figure 1 Temperature Dependence in Air

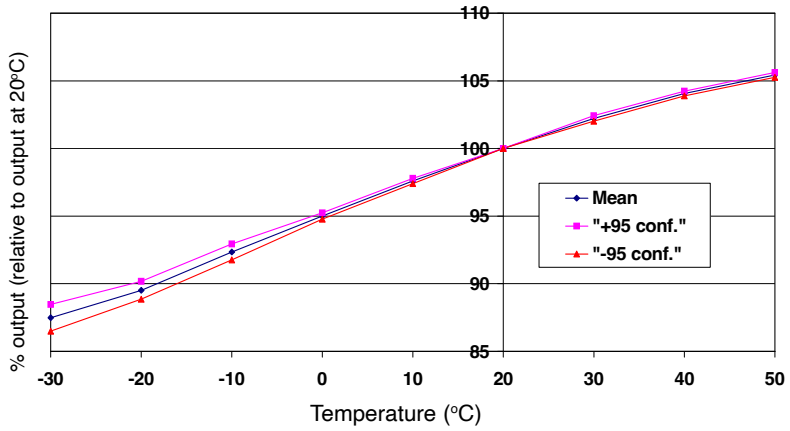


Figure 1 shows the variation of output caused by changes in temperature in 20.9% oxygen.

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

Figure 2 Pressure Step Performance

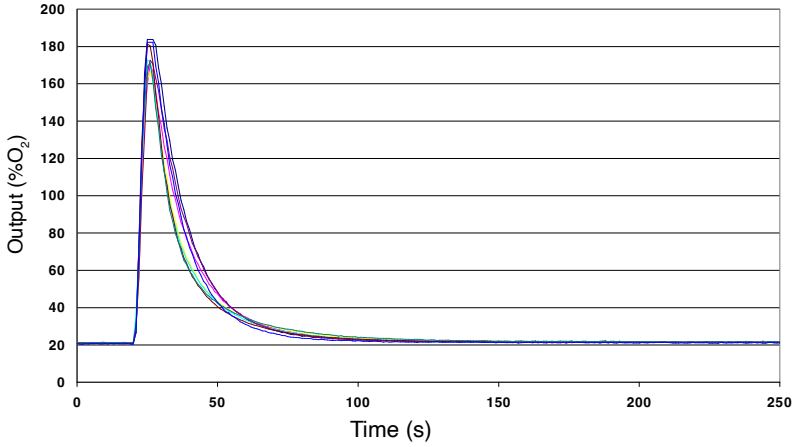


Figure 2 shows how a 25 kPa pressure step change causes a signal transient that decays reproducibly. Negative pressure changes cause a negative transient.

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

Figure 3 Long-Term Stability

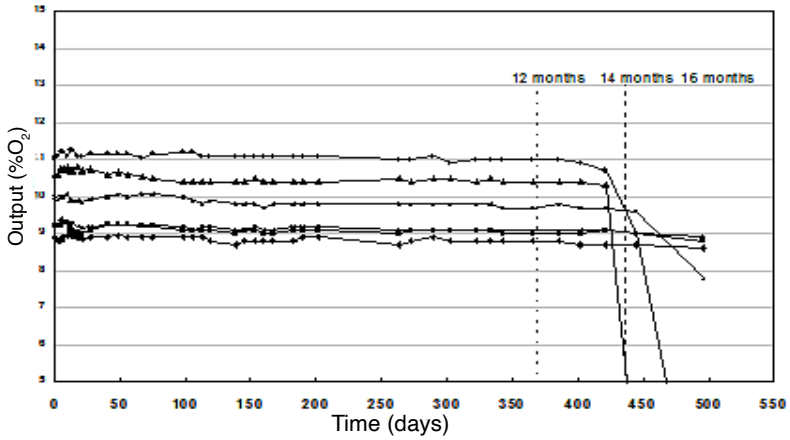


Figure 3 shows long-term stability data for the O2-G1 sensors.

All sensors show stable outputs beyond the 12-month period.

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.

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