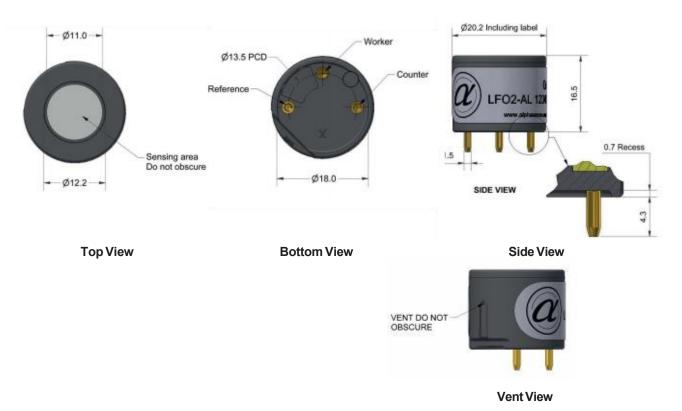
LFO2-AL Long-Life Lead-Free Oxygen Sensor

The LFO2-AL long-life lead-free oxygen sensor is a RoHS compliant Oxygen sensor that is designed for industrial safety and process control applications (0-95% O2) with best-in-class baseline and output stability. This low output sensor will minimize power consumption when used at ambient condition.

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Dimensions are in millimetres (± 0.15mm).

Performance	Output Zero Response time Overgas Limit Range	μA 20.9% O ₂ % vol O ₂ t90 (s) from 20.9% to 0% O ₂ Typical mean response time Maximum % for stable response to gas pulse % O ₂	20 to 45 < 1 < 10 6 95 95
Lifetime	Sensitivity @ -20°C Sensitivity @ 50°C Output drift Warranty Operating life	% (output @ -20°C/output @ 20°C) % (output @ 50°C/output @ 20°C) % change in output @ 3 months Months Months until 80% original output of 20.9% O ₂	85 to 95 102 to 108 < 1 36 > 60
Key Specifications	Temperature range Pressure range Humidity range Storage period Bias voltage Diameter Height Weight	°C kPa % rh non-condensing (0 to 99% rh short term) Months @ 3 to 20°C (store in sealed container) mV mm (including label) mm (including foam ring) g	-30 to 50 80 to 120 5 to 95 6 -600 20.0 17.4 < 6

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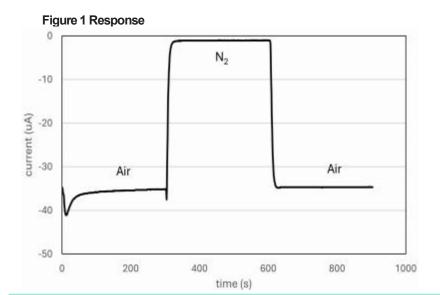
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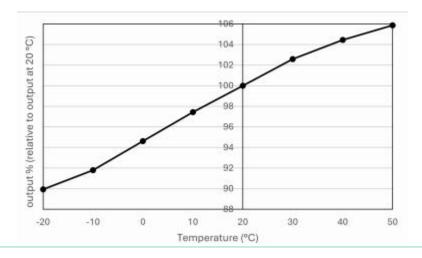
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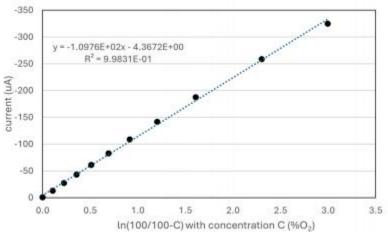
The sensor must be biased at -600mV continuously if instant response is required when switching on the gas detector.

Figure 2 Sensitivity Temperature Dependence



Temperature dependence is very repeatable and, therefore, allows for a simple correction in software.

Figure 3 Linearity (0 - 95% Oxygen)



The signal is nearly linear up to 95% O_2 . However, best fit is otained with the function K*Ln(100/(100-C)).

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: Unless otherwise stated, all sensors are tested under ambient environmental conditions (20°C, 50% RH, and 1 atm), and performance data are based on these conditions. 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. LFO2-AL/SEP24