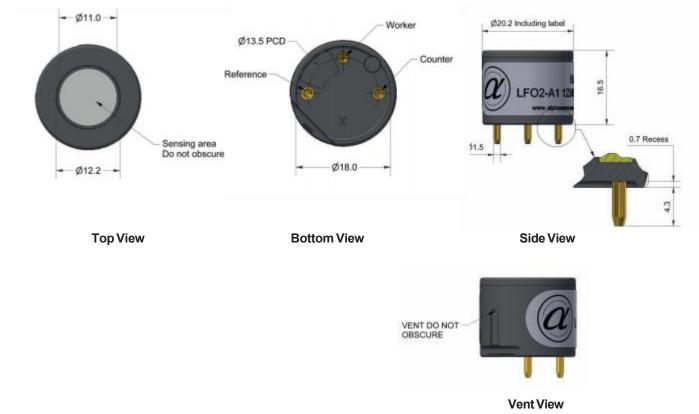
LFO2-A1 Long-Life Lead-Free Oxygen Sensor

The LFO2-A1 long-life lead-free oxygen sensor is a RoHS compliant Oxygen sensor that is designed for industrial safety and process control applications (0-30% O2) with best-in-class baseline and output stability.

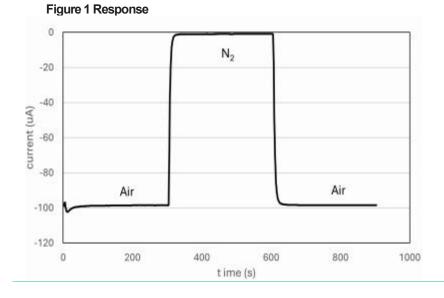
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Dimensions are in millimetres (± 0.15mm).

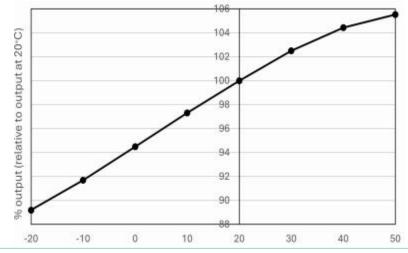
| Performance | Output Zero Response time Overgas Limit Range | μΑ 20.9% O ₂ % vol O ₂ t90 (s) from 20.9% to 0% O ₂ Typical mean response time Maximum % for stable response to gas pulse % O ₂ | 80 to 130 < 0.3 < 10 6 95 0 to 30 |
|--------------------|---|--|--|
| Lifetime | Sensitivity @ -20°C | % (output @ -20°C/output @ 20°C) | 85 to 95 |
| | Sensitivity @ 50°C | % (output @ 50°C/output @ 20°C) | 102 to 108 |
| | Output drift | % change in output @ 3 months | < 1 |
| | Warranty | Months | 36 |
| | Operating life | Months until 80% original output of 20.9% O ₂ | > 60 |
| Key Specifications | Temperature range | °C | -30 to 50 |
| | 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 |
| | Bias voltage | mV | -600 |
| | Diameter | mm (including label) | 20.0 |
| | Height | mm (including foam ring) | 17.4 |
| | Weight | g | < 6 |

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|-----------------------------|---------------------|---------------------|
| 公司名: 深圳市工采网络科技有限公司 | 地址: 广东省深圳市南山区高新南- | -道中国科技开发院3号楼16层 |
| 电话: + 86-755-83289069 | 传真:+86-755-83289052 | 邮箱; sales@isweek.cn |

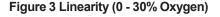


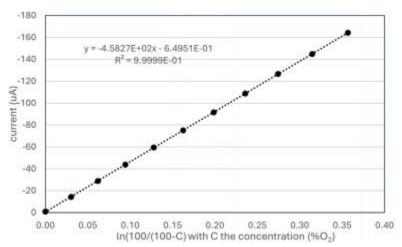
The sensor must be biased at -600mV continuously if instant response is required when switching on the gas detector.

Figure 2 Sensitivity Temperature Dependence



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





The signal is nearly linear up to 30% O₂. Best fit is obtained using 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-A1/SEP24

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公司名: 深圳市工采网络科技有限公司 电话: + 86-755-83289069 地址: 广东省深圳市南山区高新南一道中国科技开发院3号楼16层

传真:+86-755-83289052

邮箱: sales@isweek.cn