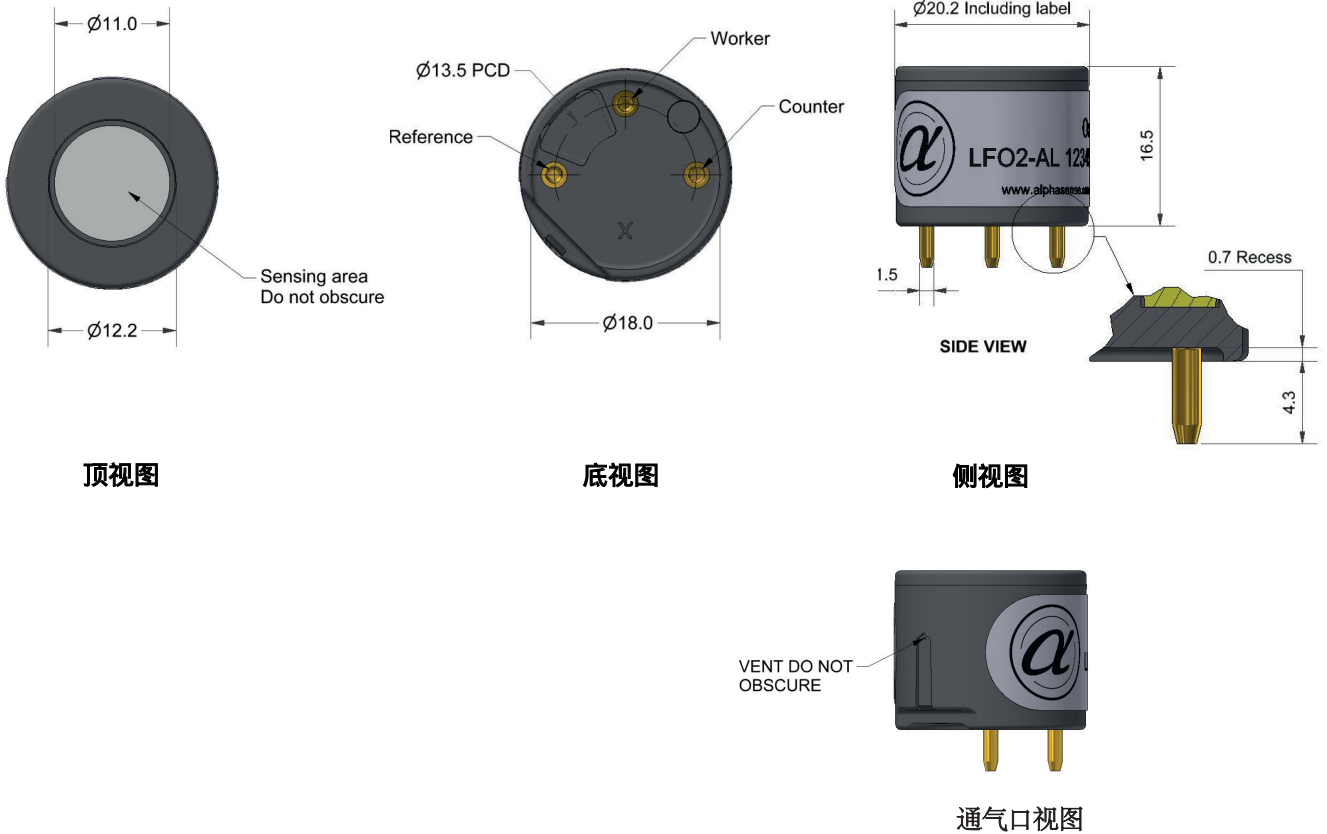


LFO2-AL 长寿命无铅氧传感器

LFO2-AL 长寿命无铅氧传感器是一款符合RoHS标准的氧气传感器, 专为工业安全和过程控制应用设计(氧浓度范围为0-95%), 具有同类产品中最佳基线和输出稳定性。环境条件下使用时, 将最大限度地减少此款低输出传感器的功耗。

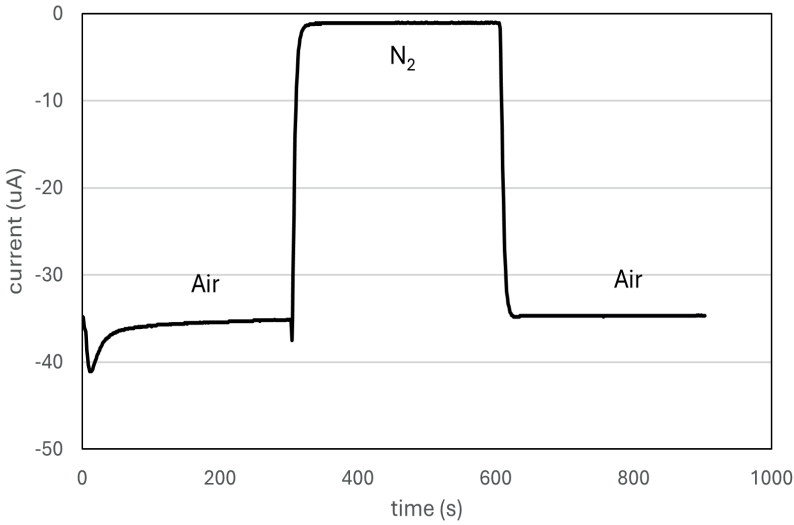
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尺寸单位均为毫米 (± 0.15 mm).

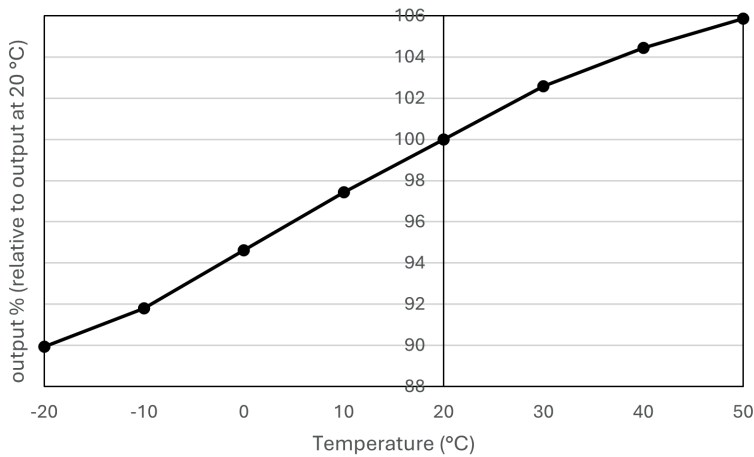
| | | | |
|-------------|-------------|----------------------------|-----------|
| 性能 | 输出 | μA 20.9% O_2 | 20 ~ 45 |
| | 零点 | % vol O_2 | < 1 |
| | 响应时间 | 从20.9% 到0% O_2 的t90 (s) | < 10 |
| | | 典型平均响应时间 | 6 |
| | 过载 量程 | 对气体脉冲稳定响应的最大百分比 % O_2 | 95 95 |
| 寿命 | 灵敏度 @ -20°C | % (输出@ -20°C/输出@ 20°C) | 85 ~ 95 |
| | 灵敏度 @ 50°C | % (输出@ 50°C/输出@ 20°C) | 102 ~ 108 |
| | 输出漂移 | 输出变化百分比% @ 3个月 | < 1 |
| | 质保 | 月数 | 36 |
| | 工作寿命 | 输出降至20.9% O_2 原始输出80%的月数 | > 60 |
| 关键参数 | 温度范围 | °C | -30~50 |
| | 压力范围 | kPa | 80~ 120 |
| | 湿度范围 | % rh 无结露(0 ~ 99% rh 短期) | 5 ~ 95 |
| | 存储期限 | 月数@ 3 ~ 20°C (保存在密封容器中) | 6 |
| | 偏压 | mV | -600 |
| | 直径 | mm (含标签) | 20.0 |
| | 高度 | mm (含泡沫圆环) | 17.4 |
| | 重量 | g | < 6 |

图1 响应



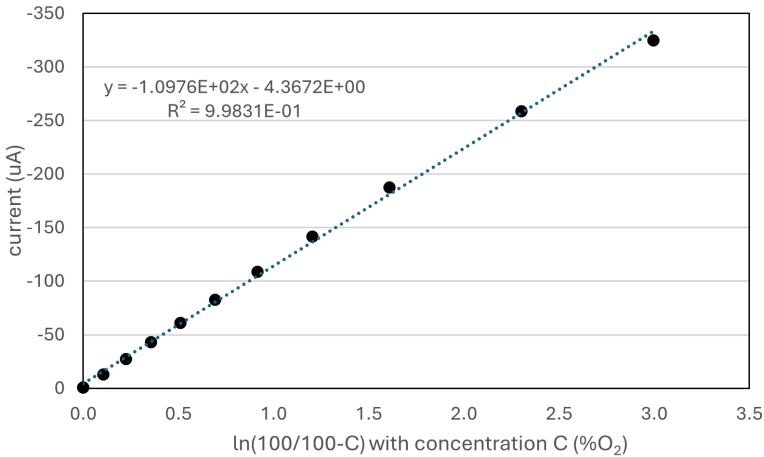
若在开启气体检测仪时需要即时响应，传感器须保持-600mV的偏压。

图2 灵敏度温度特性



传感器温度特性的重复性极高，因此，允许在软件中对其进行简单校正。

图3 线性度(0 - 95% 氧气)



传感器信号在高达95%的氧气浓度范围内几乎呈线性。最佳拟合通过函数 $K \cdot \ln(100/(100-C))$ 获取。

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.

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