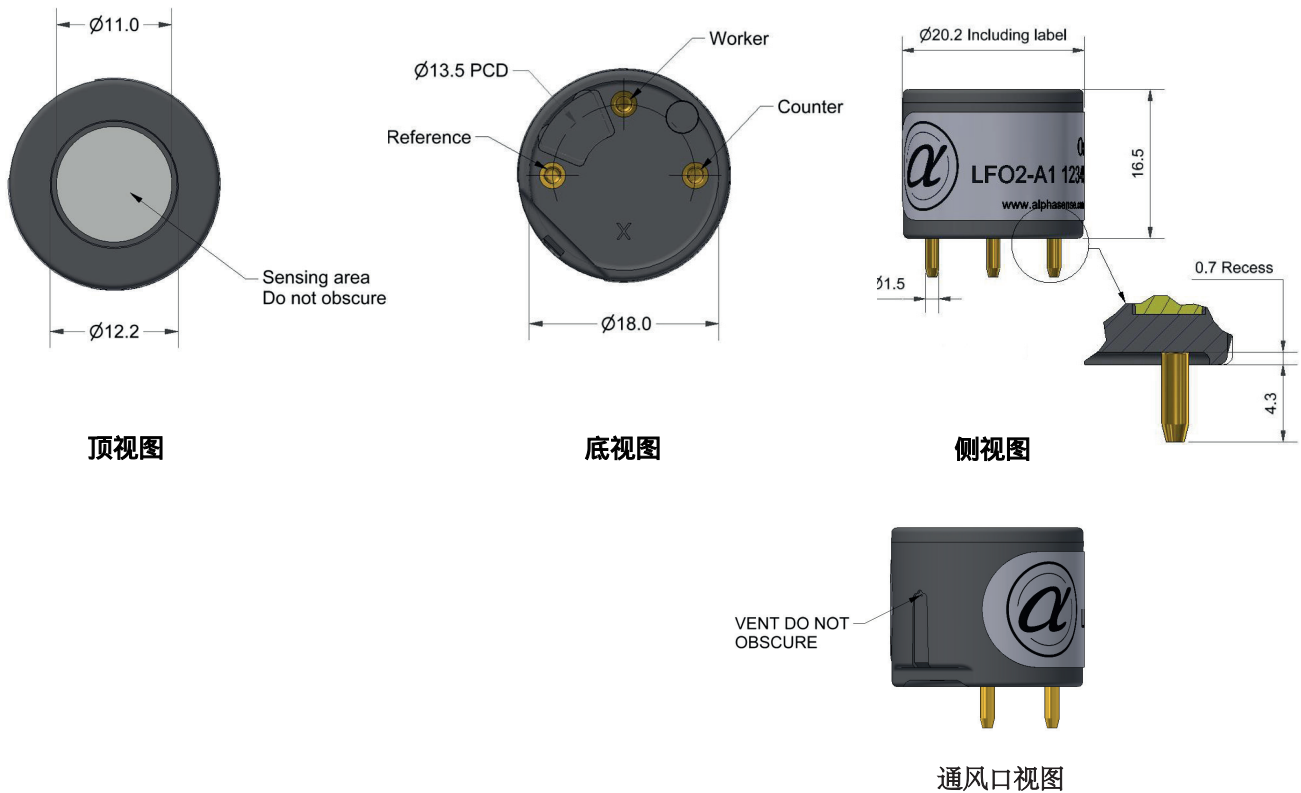


LFO2-A1 长寿命无铅氧传感器

LFO2-A1 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0-30%），具有同类产品中的最佳基线和输出稳定性。

LFO2-A1 长寿命无铅氧传感器

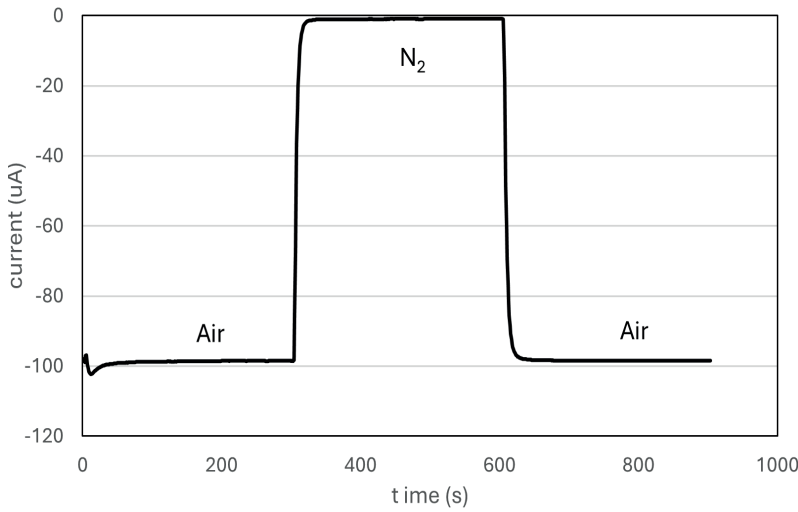


尺寸单位均为毫米 (± 0.15 mm).

性能	输出	$\mu\text{A } 20.9\% \text{ O}_2$	80~130
	零点	% vol O_2	< 0.3
	响应时间	从20.9% 到0% O_2 的 t_{90} (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 0 ~ 30
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

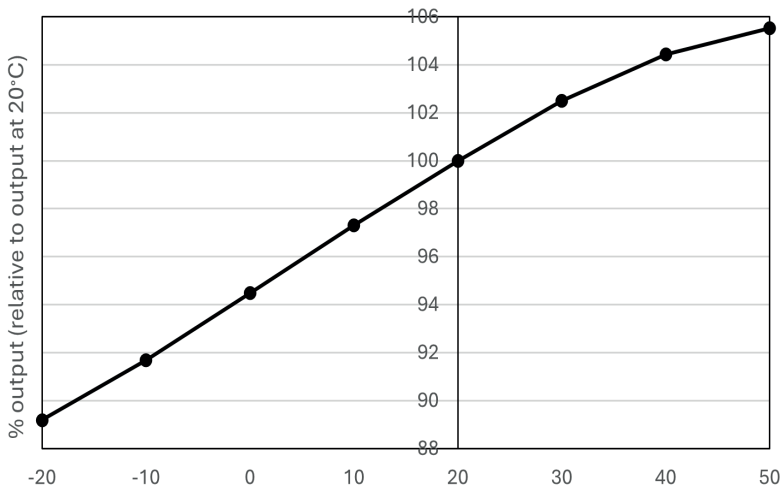
深圳市新世联科技有限公司

图1 响应



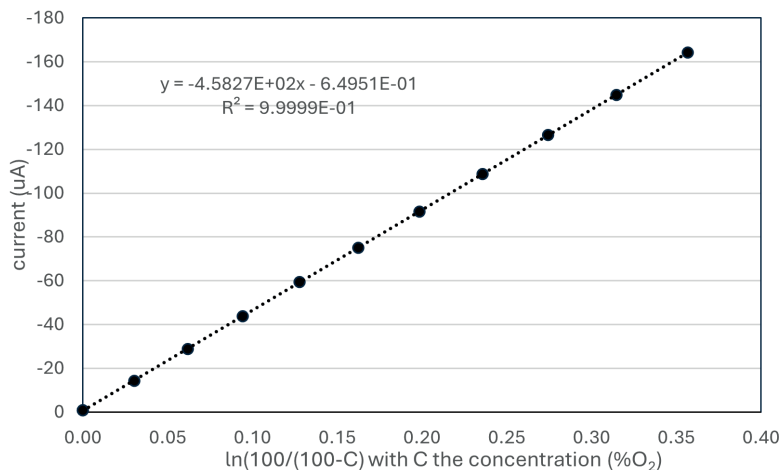
若在开启气体检测仪时需要即时响应，传感器须保持-600mV的偏压。

图2 灵敏度温度特性



传感器温度特性的重复性极高，因此，允许用户在软件中对其进行简单校正。

图3 线性度(0 - 30% 氧气)



传感器信号在达30%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.

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/JUL24

深圳市新世联科技有限公司