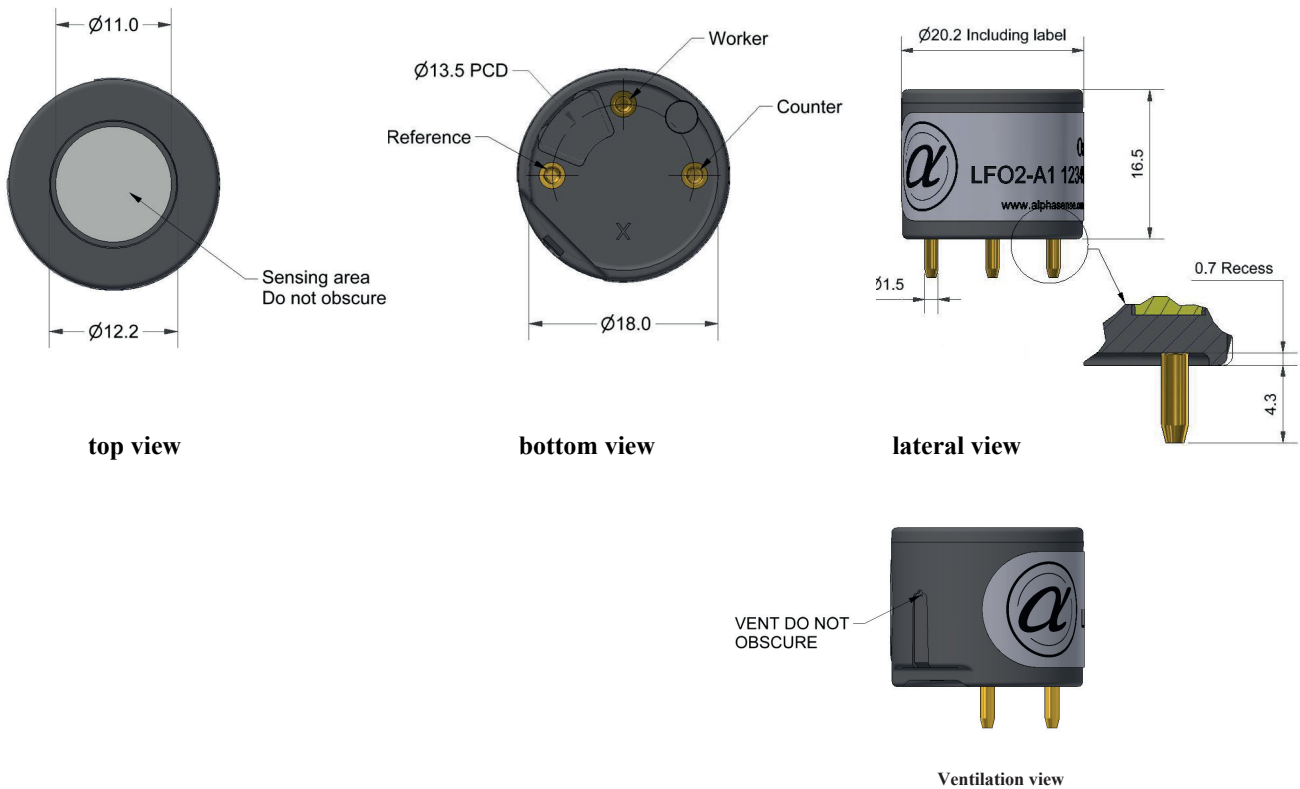


LFO2 - A1 Long Life Without Lead Sensor

The LFO2-A1 Long Life Lead-free Oxygen Sensor is a RoHS compliant oxygen sensor designed for industrial safety and process control applications (oxygen concentration range 0-30%) with the best baseline and output stability in its class.

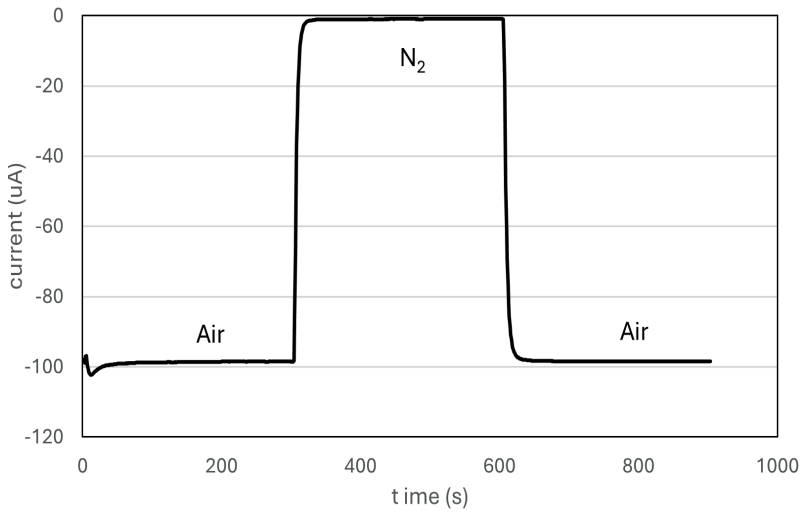
LFO2-A1 Long life lead free oxygen sensor



The unit of size is millimeters (± 0.15 mm).

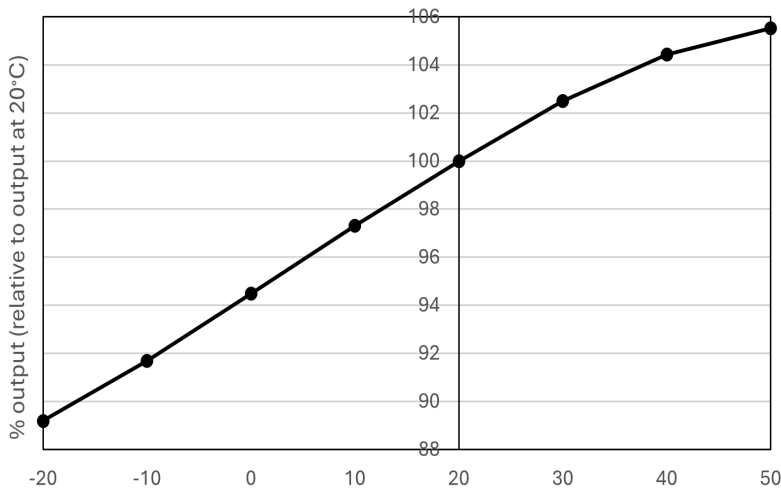
function	output	$\mu\text{A } 20.9\% \text{ O}_2$	80~130
	null point	% vol O_2	< 0.3
	response time	From 20.9% to 0% O_2 at t_{90} (s)	< 10
	Typical average response time		6
overload	Maximum percentage of stable response to gas pulse		95
	range	% O_2	0 ~ 30
life span	Sensitivity @ -20°C	% (Output @ -20°C/Output @ 20°C)	85 ~ 95
	Sensitivity @ 50°C	% (Output @ 50°C/Output @ 20°C)	102
	Output drift	Percentage change in output @ 3 months	~ 108
	warranty	member of the month	< 1
	service life	Output decreased to 20.9% of the number of months when O_2 was 80% of the original output	36 > 60
hinge parameter	temperature range	°C	-30 ~ 50
	pressure limit	kPa	80 ~ 120
	Humidity range	% RH no condensation (0 ~ 99% RH short term)	5 ~ 95
	Storage pe-riod bias	No. of months @ 3 to 20°C (stored in a sealed container)	6
	diameter	mm (including labels)	20.0
	Height	mm (including foam ring)	17.4
	weight	g	< 6

Figure 1 Response



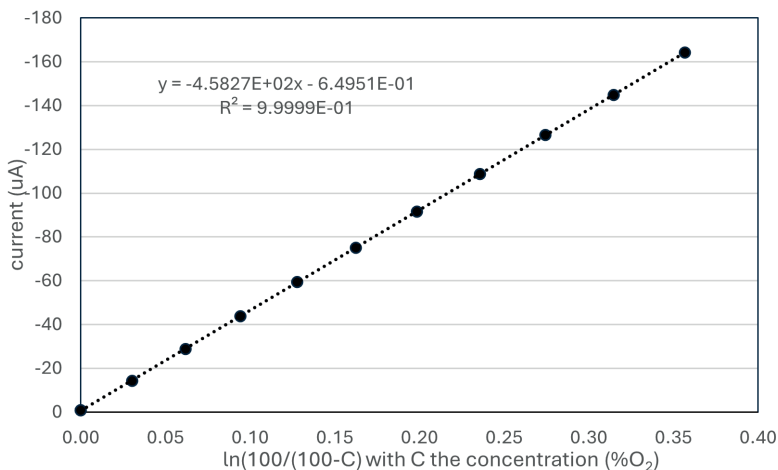
If an immediate response is required when the gas detector is turned on, the sensor must maintain a bias of -600mV.

Figure 2 Sensitivity Temperature Characteristics



The sensor temperature characteristics are highly repetitive, therefore allowing the user to make simple corrections in the software.

Figure 3 Linearity (0-30% Oxygen)



The sensor signal is almost linear over a range of up to 30% oxygen concentration. The best fit is obtained by 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/JUL24

深圳市杰晟兴电子有限公司 JM Components Limited

地址：深圳市福田区中航路7号鼎诚国际大厦南座2007室
 手机：13662266995 马少良 电话：0755-83951311
 官网：cn-sensor.com

邮编：518031
 传真：0755-83952401
 电邮：jackson@jmcomponents.com