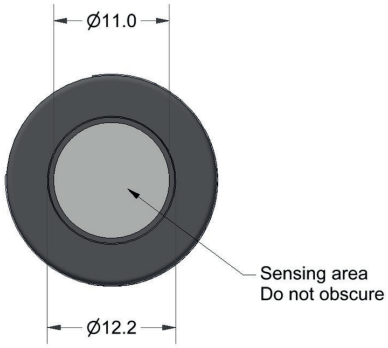
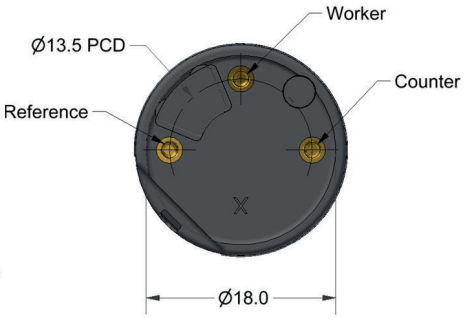
LFO2 - AL Long Life Without Oxygen Sensor

The LFO2-AL Long-Life Lead-Free Oxygen Sensor is a RoHS-compliant device specifically engineered for industrial safety and process control applications (oxygen concentration range: 0-95%). It delivers the industry's best baseline performance and output stability. When operating in environmental conditions, this low-output sensor achieves maximum power efficiency while maintaining reliable performance.

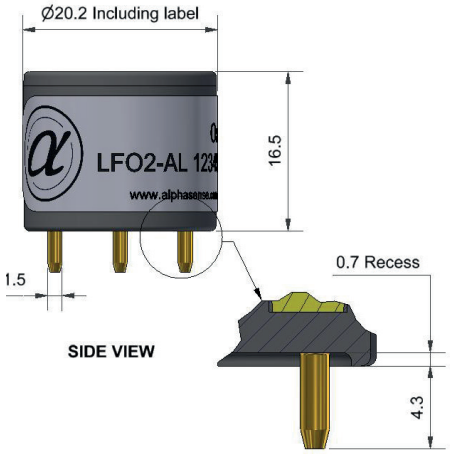
LFO2-AL Long life lead free oxygen sensor



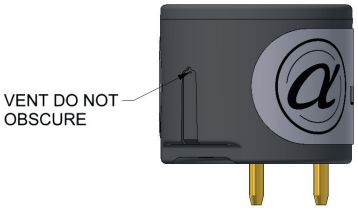
top view



bottom view



lateral view

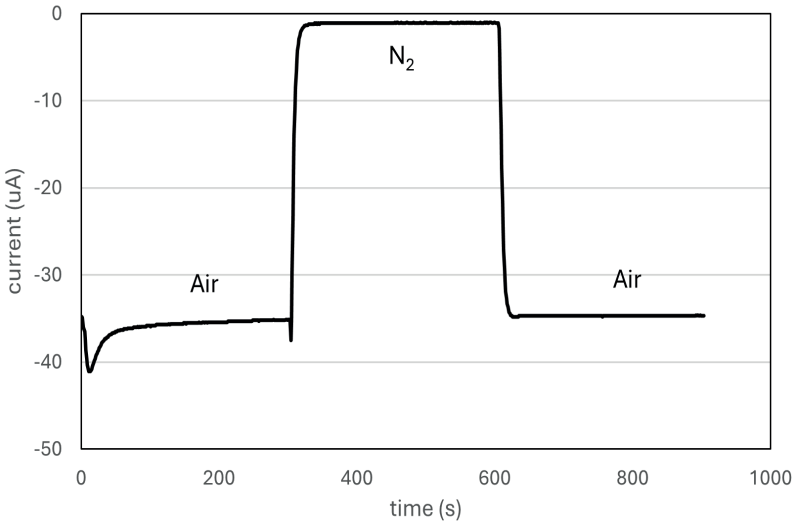


Visa of the vent

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

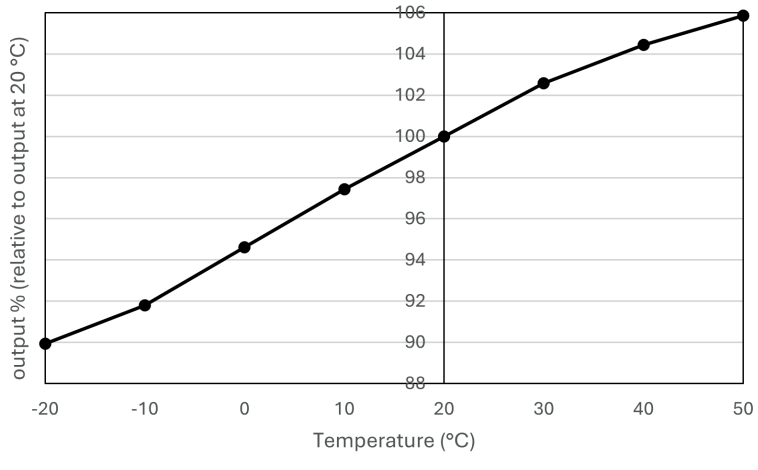
function	output	µA 20.9% O_2	20 ~ 45
	null point	% vol O_2	< 1
	response time	From 20.9% to 0% O_2 at t90 (s)	< 10
		Typical average response time	6
	overload	Maximum percentage of stable response to gas pulse	95
	range	$\%O_2$	95
life span	Sensitivity @ -20°C	% (Output @ -20°C/Output @ 20°C)	85 ~ 95
	Sensitivity @ 50°C	% (Output @ 50°C/Output @ 20°C)	102 ~ 108
	Output drift	Percentage change in output @ 3 months	< 1
	Quality Assurance	member of the month	36
	working life	Output decreased to 20.9% of the number of months when O2 was 80% of the original output	> 60
hinge	temperature range	°C	-30~50
parameter	pressure limit	kPa	80~ 120
	Humidity range	% RH no condensation (0 ~ 99% RH short term)	5 ~95
	Storage period	No. of months @ 3 to 20°C (stored in a sealed container)	6
	bias voltage	mV	-600
	diameter	mm (including labels)	20.0
	altitude	mm (including foam ring)	17.4
	weight	g	< 6

Figure 1 Response



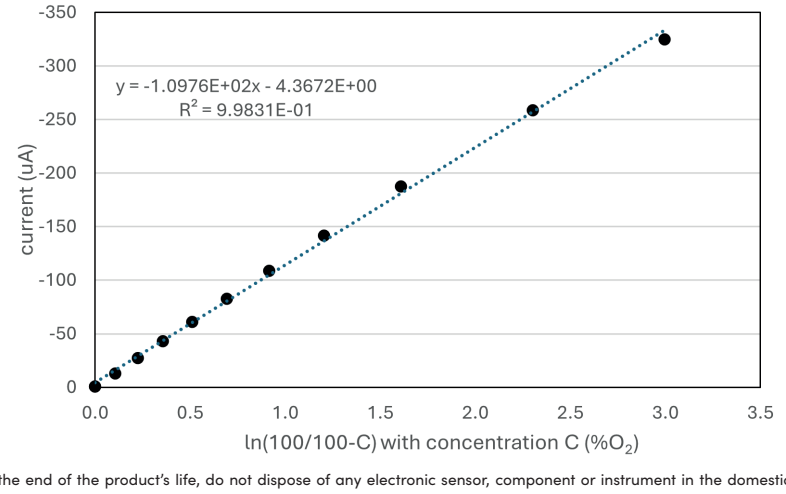
If an immediate response is required when the gas detector is turned on, the sensor must maintain a bias of-600mV.

Figure 2 Sensitivity Temperature Characteristics



The temperature characteristics of the sensor are highly repetitive, so they can be easily corrected in the software.

Figure 3 Linearity (0-95% Oxygen)



The sensor signal is nearly linear over a range of up to 95% oxygen concentration. The best fit is obtained through the function K*Ln (100/(100-C)).

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