A SERIES | LEAD FREE | LEAK FREE | RoHS COMPLIANT | DROP-IN REPLACEMENT | WORKER SAFETY

THE WAIT IS OVER

Innovative galvanic lead-free oxygen sensor

Are you ready for a worry-free, drop-in replacement for lead-based oxygen sensors?

At Alphasense, we are ready with the next industry-changing revolution, the world's first galvanic lead-free oxygen sensor for safety applications.

Based on innovative sensing technology and our proven leak-free design, the O2-A2-GLF is the latest sensor in the trusted A series platform. Its zero bias, two pin configuation enables simple drop-in replacement.

Are you ready for a lead-free future?
The EU exemption for lead in oxygen sensors is anticipated to expire in January 2027.* By then, all new instruments will be required to comply with the EU RoHS directive.

Alphasense's O2-A2-GLF sensor is a RoHS compliant, future-proof replacement for the oxygen sensors you use in your instruments today.

Innovative and reliable
With 30 years as an innovation leader in sensing and sensor technology, Alphasense's sensors help your safety gas monitoring equipment perform reliably and effectively.

*The **O2-A2-GLF** (galvanic lead-free) Oxygen sensor from Alphasense*

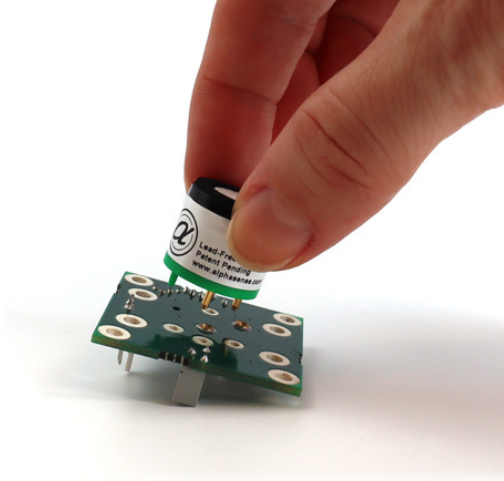
1st
- ✓ Lead Free
- ✓ Leak Free
- ✓ Worry Free

Drop-in safety O_2 sensor

** Current exemptions for capillary lead oxygen sensors expire January 2027, with the exception of ATEX-certitified instruments, which are exempt until July 2028.*

Alphasense
AMETEK®

Effortless installation



Seamless drop-in replacement ensures ease of use with minimal effort. Whether you use the sensor in a new device or as a replacement in an existing instrument, installation is a breeze.

Save time and expense with no need for changes to firmware, electronics or other costly redesigns.

Environmental responsibility

Compliance with regulations is becoming increasingly critical. The EU's RoHS directive (Restriction of Hazardous Substances), for example, prohibits the use of materials such as lead. Although exemptions exist today, it is likely that the ban on lead-based oxygen sensors for new instruments will take effect within the next year or two.

Switching to lead-free sensors ensures your devices remain future-proof and compliant. Additionally, lead-free options like the O2-A2-GLF reduce disposal challenges, helping you and your customers avoid complex hazardous waste requirements.

No leaks, less cost

This latest O2-A2 sensor is built on our proven leak-free platform, tried and tested in safety applications worldwide for over five year.

Leak-free O2 sensors have significantly lower failure rates, preventing damage to instruments, costly electronics and PCBs—even under harsh storage, transportation or operating conditions.

Containment of the electrolyte is key to both long-term sensor performance, as well as the protection of our customers' devices and valuable reputations.

Confidence in performance

Our O2-A2-GLF galvanic sensor is engineered for continuous, leak-free performance with a two-year lifetime.

Our sensors operate with zero bias, meaning they require no external voltage supply or complex circuitry. This means you can expect stable and reliable measurements that protect worker safety in hazardous environments, where gas monitoring is important.

	O2-A2-GLF	O2-A2
Output	80-120 µA	80-120 µA
Response time	<13 seconds	<13 seconds
Sensitivity	0-30%	0-30%
Operating life	24 months	24 months

Backed by 30 years of innovative expertise, this new safety oxygen sensor meets the **performance, lifetime** and **sustainability** expectations and requirements of industrial gas monitor manufacturers.

To find out more, visit **alphasense.com**
or email **sensors.alphasense@ametek.com**

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