



PureAire Gas Detection September Newsletter

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What's New At PureAire



3D Metal Printing: Oxygen Analyzers Are Essential

3D printing processes require inert, low to ultra-low oxygen (i.e., nearly oxygen-free) environments to protect the integrity of the finished printed parts.

Undue exposure to oxygen, even in small amounts, can result in various defects, such as porosity, oxidation, corrosion, and reduced mechanical properties. Porosity refers to small voids or gaps within a printed part that can compromise its structural strength.

Oxygen analyzers are critical to monitoring and regulating oxygen levels within the build chambers during 3D metal printing operations. By utilizing a top-quality oxygen analyzer, metal 3D printer operators are able to monitor and maintain optimal oxygen levels throughout the printing process.

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Product Spotlight

[PureAire Trace Oxygen Analyzers](#)

Trace oxygen analyzers are designed for continuous monitoring where inert gases are used to create an environment where there is little to no oxygen present, such as glove

boxes, process, or vacuum chambers. By utilizing a KF-type vacuum fitting, the oxygen sensor can be mounted directly into the glove boxes, process or vacuum chambers.

A trace oxygen analyzer is capable of measuring oxygen levels from 0-10 ppm and is well suited for semiconductor tools, including wafer transfer and process chambers, OLED manufacturers, 3D printing, welding, pharmaceutical, and any industry applications where inert gases including, but not limited to, nitrogen, helium, and argon are used to displace oxygen. The presence of oxygen in certain manufacturing processes can negatively affect the integrity of the product. A trace oxygen analyzer should be used in any location where zero to low levels of oxygen need to be monitored.



[PureAire 0-1000 PPM Oxygen Analyzer](#)

The monitor incorporates a low ppm level O₂ sensor cell that can operate under continuous inert environments. Unlike concentration O₂ cells, PureAire's exclusive zirconium oxide sensor cell does not need an oxygen reference gas for proper operation. The 0-1000 PPM Oxygen Analyzer detects low ppm oxygen levels in 3D process chambers and process tools without the need for a reference gas.



[PureAire 0-25% Oxygen Analyzer](#)

PureAire's 0-25% Oxygen Deficiency Analyzer is a compact gas monitoring system that's ideal for the continuous monitoring of inert gas storage areas, confined spaces, and other locations where low oxygen levels may pose a hazard to personnel. Unlike electrochemical sensor cells, the PureAire zirconium sensor cell provides stable oxygen readings even in areas where temperature and humidity levels are changing.

Now Available
PureAire CloudConnect



PureAire's CloudConnect enables users to remotely monitor oxygen or other gas levels 24/7 and receive real-time alerts when gas concentration levels require attention, allowing them to identify and respond to potential safety concerns before accidents occur. Immediate alarm and system information is sent to customer-designated safety personnel via text, phone, or email. All monitoring data is stored permanently, safely, and securely in the Cloud, retrievable for viewing anytime, and configurable for compliance reporting. The CloudConnect software is mobile-friendly and accessible from any Internet-connected device.

The CloudConnect is compatible with PureAire's complete line of Oxygen and Carbon Dioxide Monitors and our Toxic and LEL Combustible Gas Detectors.

[Learn More](#)

PureAire Google Reviews



"The support from the team at Pure Aire was exceptional! All questions answered quickly and precisely! The equipment is high quality and easy to install. Highly recommend" - Gene Mercuri

"We had an emergency situation where we needed an Oxygen sensor for an MRI lab as it was missed in the plans and specifications. We found your company online and decided to call. We successfully got the product in our hands 24 hours later. I can't thank Denise and Pure Aire enough for the support, help and sense of urgency. Thank You!" - Chris G.

"Recently we added two PureAire O2 monitors in areas where we use a lot of nitrogen gas. The air sensors installed quick and easy and are working great."- Brett S.

"We have a total of 9 PureAire models TX-1100-DRA oxygen monitors installed. Most have been running for many years without incident or maintenance. Customer service when needed has been excellent, with quick support and service Would not hesitate to recommend." - Matt R..

"During a laboratory renovation, we utilized the 8 channel controller (99058) integrated with the 1100 DRA oxygen detectors(99016) also, we included the horn strobes(42002) and remote digital display (99091). This system installed with ease and has a very user-friendly program. PureAire has multiple apparatuses for various systems and applications. I highly recommend PureAire Monitoring Systems and most definitely will revisit their product line for future projects." - Mr. Yzig

*"Solid product, easy installation, start-up, and ease of operation! Truly a plug and play application!"
- Richard R.*