



Gas Measurement for Inert Atmosphere Glove Boxes

EXCELLENCE
THROUGH DIVERSITY





Today, Ntron strives to exceed customer expectations by continuous innovation, developing better and more efficient gas analysis and control solutions to help maximize process efficiency, improve product quality, protect the health and safety of personnel and the environment, as well as preserve capital equipment and investments.

Our experienced team provides customized solutions across a wide range of sectors internationally. Our goal is to ensure qualitative and efficient gas measurement systems for your specific gas measurement requirements.



Ntron is the market leader with over 30 years experience for the supply of oxygen analyzers for inert gas applications.

We have the ability to supply either in-line or extractive oxygen measurement systems designed to maintain an inert environment for product quality and process safety applications.

We have developed a range of oxygen analyzers specifically for OEM manufacturers of inert gloveboxes. We can measure oxygen from 0.1 ppm up to 25% oxygen.

We can supply fuel cell or zirconia sensor technology which has a fast response time from ambient oxygen and also a long sensor life with no drift.



Application

The primary concern when installing this type of equipment is towards that of eliminating the risk of exposure to the operator from the product or process. Once this is complete the design engineer must also consider the risks associated with the use and operation of the Glove Box or Isolator from the types of operations and processes that will be carried out by the equipment when in normal day to day use.

This barrier isolation must be uncompromising at all stages of product handling from Charging to Sampling to Drying to Packing to Cleaning etc. During many of these operations the atmosphere within the Isolator will need to be controlled and on many of these circumstances this involves the Inerting of this atmosphere.

Inerting

Inerting is the reduction or displacement of the oxygen in the atmosphere by the flushing or purging of the space with an inert gas like nitrogen. This reduction in the oxygen content may be for a number of design engineering reasons like:

- Oxygen sensitive products.
- Safety from explosions by reducing the oxygen level below the RMOC Flammable atmospheres can exist during the use of flammable liquids during production or cleaning after use.
- The Isolator is connected to another inerted vessel, which may have their connection open during various stages of the process.





The Ntron Solution

Ntron has developed an in-line SIL 2 rated Oxygen Analyzer designed specifically for harsh applications within the additive manufacturing industry.



Products



1. Senz-Tx Oxygen Sensor Transmitter

The Senz-Tx is a highly reliable and cost-effective transmitter with a linearized 4 to 20 mA output. It has a minimum detection range of 0-10 ppm up to 0-96% Oxygen. This compact transmitter utilizes Zirconia technology to give a reliable and fast response time, long life and no drift from Oxygen Measurement.



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3. Microx Oxygen Analyzer

Microx oxygen analyzers comprise of a range of low-cost OEM solutions for the ppm or % oxygen measurement which utilizes zirconia technology. It gives a reliable and fast response time, long life and no drift.

They are available in panel, wall or din rail configuration and have an analogue output of 4-20 mA and RS232 for communication with gas generator PLC. They also have an LCD display and 3 configurable alarm contacts.



4. GazTrak Oxygen & Moisture Transmitter

The Ntron GazTrak is a compact transportable oxygen & moisture analyzer providing an affordable and versatile solution for the measurement of oxygen and moisture.

Housed in an ergonomic high impact case the GazTrak has a large touch screen and has onboard data logging. The GazTrak has a reliable long life zirconia sensor with a fast response time from 1ppm to 25% Oxygen. The moisture transmitter has a gold plated capacitance sensor with a measurement range of 0 to 1,000ppm Moisture. The GazTrak has a 4-20 mAmp output for both the moisture and oxygen transmitter with 2 configurable alarm contacts for each channel. Onboard data logging is available via a SSD card



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