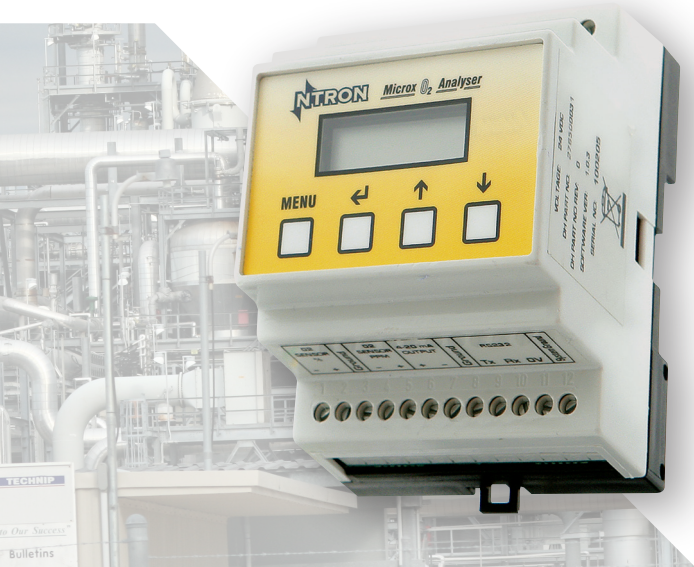


## Microx Oxygen Analyser Zirconia Technology



The Microx is a highly reliable and cost-effective Oxygen Analyser with a linearized 4 to 20 mA output and 3 alarm outputs. It has a detection range of 0-1% Oxygen.

This compact analyser utilises Zirconia technology to give a reliable and fast response time, long life and minimal drift of oxygen measurement.

### Applications

#### An Oxygen Analyser for use in:

- Glove box purge and leak detection
- Additive manufacturing
- Gas generation (Oxygen / Nitrogen)
- Semiconductor wafer machines
- Wave soldering
- Membrane air separators
- Inert welding gases
- Inert ovens
- Medical gas applications
- Pharmaceutical industries
- Food and beverage industries
- Gas generation industries

### Features

- Measurement ranges:  
0 - 1% Oxygen
- Display resolution:  
0 - 0.1%
- Reliable zirconia sensor technology with Electrochemical options
- Low cost compact oxygen analyser
- Din-Rail Enclosure
- LCD display and 4 button multifunction keypad
- Analogue 4 to 20mA output for retransmission of measured signal
- RS232 communications provided
- 24VDC power supply (mains power optional)
- 3 configurable alarm relay contacts



### **Proven Sensor Technology**

The compact Zirconia sensor offers a simple and effective method for installation into OEM equipment. The robust design of the sensor assures accurate measurement as well as a quick response characteristic to serve a wide range of oxygen measurement applications.

A major advantage of the Ntron Zirconia sensor is fast response time from ambient air to low PPM Oxygen Measurement. Additionally, there exists no real limitation on shelf life or storage temperature. Perhaps the most attractive feature of the Ntron Zirconia Sensor is its long life. Expected operating life is five years under normal operating conditions.

### **Low Maintenance and Cost of Ownership**

The Ntron Zirconia Oxygen sensor has an extremely long life expectation in the region of 5 years under normal operation. Due to the highly stable nature of the sensor, a calibration interval of once per year is required, allowing for significant cost savings.

### **Minimal Sample requirements**

Due to the unique construction of the Zirconia Oxygen sensor, only 100 mLPM sample is required.

### **Fast Response Time**

Due to its miniature size and unique design, the Ntron Zirconia sensor has a T 90 of less than 10 seconds.



# Microx

## Product specifications

### Gas Type / Range

Oxygen / 0 - 1%

### Sensor Type

OC-43 Ntron Oxygen Sensor, Zirconia

### Sensor Life

20000 hours in 20.9% O<sub>2</sub>  
(ambient air) Zirconia

### Response Time (T90)

<10 seconds

### Power Requirements

24VDC +/- 10%, Max. Load 160mA  
80 - 230VAC Optional on some models

### Digital Output Opt.

3 off relay, dry contact 5 Amp rated

### Analogue Output

4 to 20mA, Linearity is +/- 1%  
RS 485 Modbus

### Environmental Rating

Enclosure IP Rating depending  
on enclosure type

### Dimensions

86mm (h) x 69mm (w) x 58mm (d)

### Weight

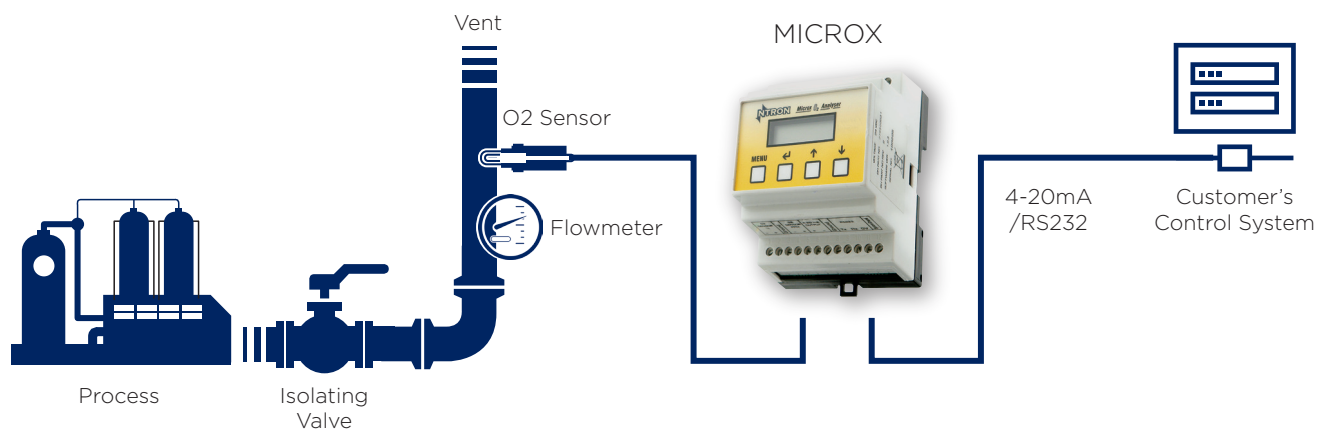
175g Panel mounting

### Electromagnetic Compatibility

CE marked and tested to  
EN610000-6-4, EN610000-6-2, EN55022

# Microx

## Typical application setup



Please note: Ntron Ltd. adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version.

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