

# SenzTx-101

## Oxygen Sensor Transmitter



The SenszTx-101 is a highly reliable and cost-effective oxygen sensor transmitter with a linearized 4 to 20 mA output.

It has a minimum detection range of 0-25% Oxygen.

This compact transmitter utilises Zirconia technology to give a reliable and fast response time, long life and no drift from Oxygen Measurement.

## Applications

### An oxygen Sensor transmitter 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

### 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.

## Features

- Measurement range: 0-25%
- Zirconia Sensor Technology
- Industry Standard 4-20mA Output
- RS 485 Modbus Communication
- 24VDC Power Supply
- M12 Electrical Connection
- Flow Through Connection
- Optional In-Built Flow Orifice

### 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.

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## Product specifications

|                                     |   |
|-------------------------------------|---|
| <b>General Purpose Installation</b> | Standard option package                                   |
| <b>Gas Type / Range</b>             | Oxygen / 0 - 25%  |
| <b>Response Time (T90)</b>          | <10 seconds   |
| <b>Power Requirements</b>           | 24VDC +/- 10%, Max 160mA                                  |
| <b>Output Signal</b>                | 4 to 20mA / RS 485 Modbus                                 |
| <b>Accuracy:</b>                    | +/- 2% of reading   |
| <b>Temperature range:</b>           | -20°C to +50°C  |
| <b>Pressure Range</b>               | 900 to 1100mbar Absolute                                  |
| <b>Process Connection</b>           | Flow Through Connection                                   |
| <b>Dimensions</b>                   | 47mm Dia x 120mm - 140mm. Depending on connection option. |
| <b>Weight</b>                       | 0.260Kg   |
| <b>European Compliance</b>          | Complies with EMC Directive 2004/108/EC                   |

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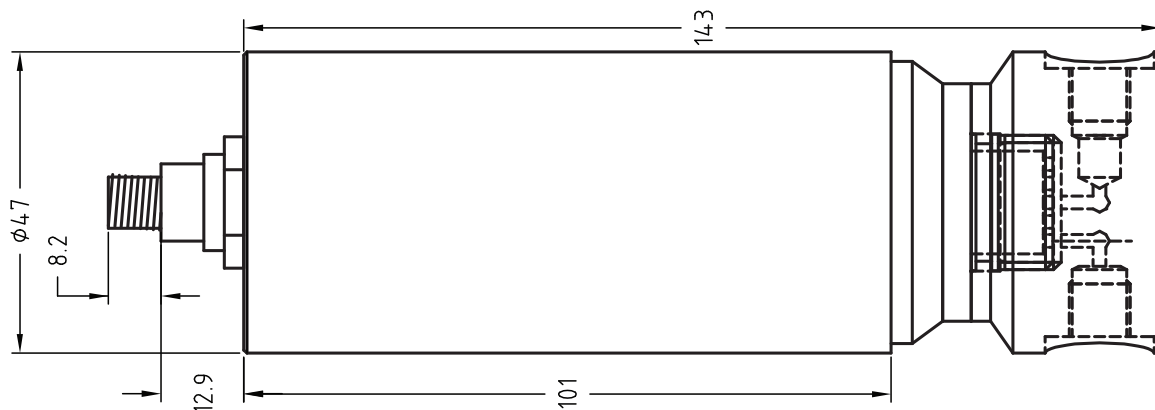
## Ordering information

| Product    | Sensor   | Measurement Range | Connection   | In-Built Orifice | Part No. |
|------------|----------|-------------------|--------------|------------------|----------|
| SenzTx-101 | Zirconia | 0-25%             | Flow through | No               | 02-662   |
| SenzTx-101 | Zirconia | 0-25%             | Flow through | Yes              | 05-139   |

|   |        |
|---|--------|
| <b>Product:</b> 1 mtr cable for SenzTx Analyser | 03-557 |
|---|--------|

# SenzTx-101

## Technical drawing



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