

# SenzTx-100

## Oxygen Sensor Transmitter



The SenszTx-100 is a highly reliable and cost-effective oxygen sensor transmitter with a linearized 4 to 20 mA output.

It has a minimum detection range from 0-1% and from 0-1000ppm up to 0-3000ppm 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: 0-1% / 0-1000ppm / 0-2000ppm / 0-3000ppm
- Zirconia Sensor Technology
- Industry Standard 4-20mA Output
- RS 485 Modbus Communication
- 24VDC Power Supply
- M12 Electrical Connection
- Flowthrough Process 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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### Datasheet:

D-02-661-P-000  
D-03-291-P-000  
D-04-949-P-000  
D-04-558-P-000  
D-05-333-P-000  
D-05-138-P-000  
D-05-003-P-000

# SenzTx-100

## Product specifications

<b>General Purpose Installation</b>	Standard option package
<b>Gas Type / Range</b>	Oxygen / 0 - 1% / 0-1000ppm / 0-2000ppm / 0-3000ppm
<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>	Flowthrough 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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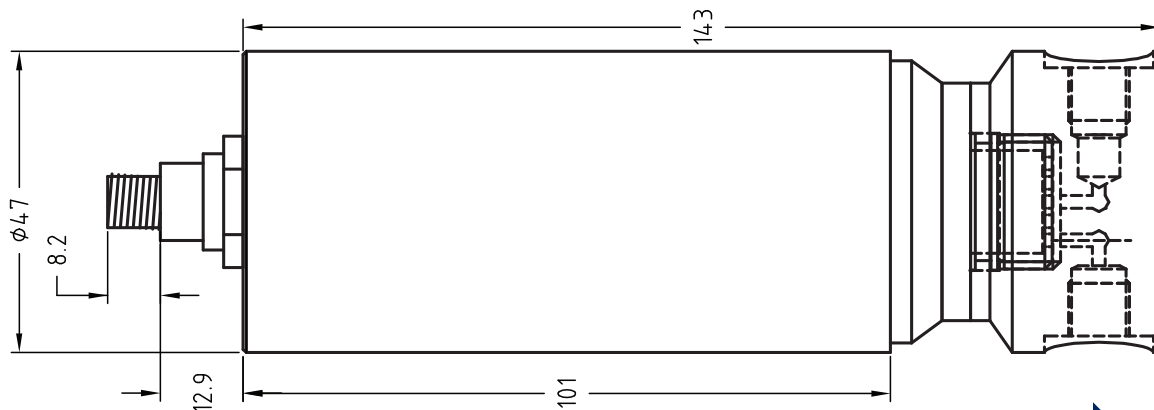
## Ordering information

Product	Sensor	Measurement Range	Connection	In-Built Orifice	Part No.
SenzTx-100	Zirconia	0-1000ppm	Flowthrough	No	02-661
SenzTx-100	Zirconia	0-1%	Flowthrough	No	03-291
SenzTx-100	Zirconia	0-2000ppm	Flowthrough	No	04-949
SenzTx-100	Zirconia	0-2000ppm	Flowthrough	Yes	04-558
SenzTx-100	Zirconia	0-3000ppm	Flowthrough	Yes	05-333
SenzTx-100	Zirconia	0-1000ppm	Flowthrough	Yes	05-138
SenzTx-100	Zirconia	0-1000ppm	Flowthrough	No	05-003

<b>Product:</b> 1 mtr cable for SenzTx Analyser	03-557
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## Technical drawing



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