



# SenzTx Compact OEM Oxygen Transmitter

SenzTx is PST's intelligent compact oxygen transmitter that uses proven zirconia or electrochemical technology for reliable oxygen concentration measurement.

The zirconia sensor delivers fast response times and a long service life with low drift, whilst the electrochemical sensor allows measurement of background gases containing hydrocarbons. SenzTx is a low-maintenance oxygen transmitter that is easy to integrate. It is a unique solution, delivering reliable performance in critical process applications.





## Highlights

- Wide variety of ppm and % measurement ranges
- Designed for in-line and extractive gas applications
- Combined sensor and high integrity electronics
- Compact integrated solution with a range of process connections
- Analog 4...20 mA and digital Modbus outputs
- Modular design with custom labeling available

#### Applications

- Gas generation (oxygen and nitrogen)
- Glove box and containment solutions
- Additive Manufacturing
- Inert gas blanketing
- Semiconductors
- Industrial gas testing / analysis





## **Technical Specifications**

		Zirconia (ZR)	Electrochemical (EC)		
Measurement	Range*	01000 ppm <sub>V</sub> ,	01,000 ppm <sub>V</sub> ,		
Ű		01 %, 025 %, 096 %, 0100 %	01 %, 025 %		
Accuracy		Please see Accuracy Table below			
Output Resolution (420 mA)		1 ppm <sub>V</sub> / 0.01 %	0.5 ppm <sub>V</sub> / 0.01 %		
ower Detection	on Limit (LDL)	1 ppm <sub>V</sub> (ppm ranges) / 0.01 % (% ranges)			
Sample Flow Rate (application dependent)		Flow-through / extractive: 100500 ml/min (250 ml/min optimal) in a vented atmosphere			
		Direct insertion: Up to 6 m/s			
Pressure Range		9001100 mBar <sub>abs</sub>			
Response Time	e (T90)	< 15 seconds @ 25 °C (77 °F) within selected range			
Operating Temperature Range		-25 °C+60 °C (-13 °F140 °F)	0 °C+45 °C (32 °F113 °F)		
Life Expectancy (application dependent)		Up to 5 years	Up to 18 months		
Humidity		095 %rh non-condensing (with normal use)			
Shelf Life (in or	riginal packaging)	Unlimited	Up to 3 months		
Calibration Interval		12 months	36 months		
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ETL: UL-610101-1, EMC: EN 50270, UKCA

Marine approved version available - Lloyd's Register: EN 60945



Ntron Gas Measurement is part of the Process Sensing Technologies Group (PST). As customer applications are outside of PST control, the information provided is given without legal responsibility. Customers should test under their own conditions to ensure the equipment is suitable for the intended application(s).

#### **Accuracy Table**

Range	ZR	EC
10 ppm	+/- 0.5 ppm	+/- 0.5 ppm
100 ppm	+/- 1 ppm	+/- 1 ppm
1000 ppm	+/- 3 ppm @ 100 ppm	+/- 3 ppm @ 100 ppm
	+/- 1 ppm @ 10 ppm	+/- 1 ppm @ 10 ppm
1 %	+/- 10 ppm @ 100 ppm	+/- 10 ppm @ 100 ppm
25 %	+/-0.03 % @ 1 %	+/- 0.03 % @ 1 %
	+/- 0.02 % @ 0.1 %	+/- 0.02 % @ 0.1 %
76%	+/- 0.5 % @ 20.9 %	-
	+/- 0.3 % @ 95 %	-

## Dimensions (mm)

	EC Flow-through	ZR Flow-through	EC KF40	ZR KF40
а	47	47	47	47
b	115.2	115.2	115.2	115.2
С	-	-	35	70
d	47	47	39	26
e	163.2	156.2	163.2	198.2

We adopt a continuous development program which sometimes necessitates specification changes without notice. For technical assistance or enquiries about other options, please contact us here:

oxygen@processsensing.com.