



# Oxygen Analyzer





### Microx Compact Oxygen Analyzer

With zirconia and electrochemical sensor options, Microx is a cost-effective, reliable and compact analyzer. It features three configurable alarm contacts and an LCD screen displaying O2 concentration, as well as process connection options, for a solution that provides flexibility.

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. Microx consists of a remote sensor that can be located near or inside the process, with multiple measurement ranges available.



Din rail mounting option pictured with remote zirconia flow-through sensor. Wall and panel mount analyzer options, and electrochemical sensors with range of process connections also available.



### Highlights

- Wide variety of measurement ranges from 0...1000 ppm to 0...100 %
- Designed for inline and extractive gas applications
- Compact integrated solution with remote sensor
- Three configurable alarms
- Analog 4...20 mA or RS232 outputs
- Custom labeling available

### Applications

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





## PST NITRON

Oxygen Analyzer

### **Technical Specifications**

	Zirconia (ZR)	Electrochemical (EC)	
		Electrochemical (EC)	
Measurement Range	01,000 ppm <sub>V</sub>	01,000 ppm <sub>V</sub>	
	025 %, 096 %	025 %, 0100%	
Accuracy	Please see Accuracy Table below		
Dutput Resolution (420 mA)	1 ppm <sub>V</sub> / 0.01 %	0.5 ppm <sub>V</sub> / 0.01 %	
ower Detection Limit (LDL)	1 ppm <sub>V</sub> (ppm ranges) / 0.01 % (% ranges)		
Sample Flow Rate (application dependent)	Flow-through in 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 (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)	
.ife Expectancy (application dependent)	Up to 5 years	Up to 18 months	
Humidity	095 %rh non-condensing (with normal use)		
Process Connections	M16 threaded connection, flow-through housing, or 6 mm compression sample T-piece		
Shelf Life	Unlimited	Up to 3months	
Calibration Interval (application dependent)	12 months	36 months	
Analyzer			
Electrical			
		2	
Display	LCD		
Dutput Signal	420 mA		
Digital Communications Relay Output Options	RS232		
Electrical Interface	Three configurable relays, dry contact 5 Amp-rated		
Power Supply	2 x 12-way electrical terminal block 85230 V AC (5060 Hz) or 24 V DC		
Maximum Power Consumption	6 W	2.4 W	
Maximum Power Consumption Mechanical	0 VV	2.4 VV	
ngress Protection	Din rail - IP20, Panel - IP40, Wall - IP65		
Housing Material	ABS		
Mounting	Din rail (M36) / panel / wall		
Standards and Certification			



Din rail mounting option pictured.

### 

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

Accuracy at standard temperature and pressure (STP)				
Range	ZR	EC		
1000 ppm	+/- 3ppm @ 100 ppm	+/- 3ppm @ 100 ppm		
	+/- 1 ppm @ 10 ppm	+/- 1 ppm @ 10 ppm		
25 %	+/-0.03 % @ 1 %	+/-0.03%@1%		
	+/- 0.02 % @ 0.1 %	+/- 0.02 % @ 0.1 %		
96%	+/- 0.5 % @ 20.9 %	-		
	+/- 0.3 % @ 95 %	-		
100 %	-	+/-1%		

### Dimensions (mm)

	Din rail	Panel	Wall
а	69	96	110
b	85	96	110
С	57	90	90

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.