# Oxygen Analyzer





#### **Microx Online**

## Oxygen Analyzer

Microx Online is designed for precise oxygen measurement in positive pressure applications.

Our proven zirconia sensor technology delivers lightning-fast response times and a long service life, while the electrochemical sensor allows for measurement of background gases containing hydrocarbons. Both have virtually no drift, ensuring your measurements are always accurate.

A versatile analyzer, Microx Online is complete with integrated audible-visual alarms that you can configure, and is available with multiple measurement ranges to customize your setup.



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#### **Highlights**

- Measurement ranges cover 0...1000 ppm<sub>V</sub>,
   0...25 %, 0...96 %
- Internal pressure and flow regulation
- 4...20 mA output with RS232 communication
- Simple integration
- Configurable alarms
- Compact, sleek, slimline design

#### **Applications**

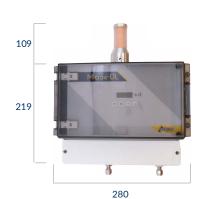
- O<sub>2</sub> and N<sub>2</sub> gas generation
- Industrial gas
- Medical gas
- Pharmaceutical
- Additive Manufacturing



### **Technical Specifications**

Measurement Range Accuracy Output Resolution (420 mA) Ower Detection Limit (LDL)		01,000 ppm <sub>V</sub> 025 %	
Output Resolution (420 mA) ower Detection Limit (LDL)	Please see Accuracy Table be	025 %	
Output Resolution (420 mA) ower Detection Limit (LDL)	Please see Accuracy Table be		
ower Detection Limit (LDL)		Please see Accuracy Table below for specific point details.	
` '	1 ppm <sub>V</sub> / 0.01 %	0.5 ppm <sub>V</sub> / 0.01 %	
	1 ppm <sub>V</sub> (ppm ranges) / 0.01 % (% ranges)		
ample Flow Rate (application dependent)	100500 ml/min (250 ml/min optimal) in a vented atmosphere. Set at Factory.		
ressure Range	9001100 mBar <sub>abs</sub> (1316 psi)		
esponse Time (T90)	< 15 seconds @ 25 °C (77 °F) within selected range		
Operating Temperature Range	-25+60 °C (-13+140 °F)	0+45 °C (+32+113 °F)	
ife Expectancy (application dependent)	Up to 5 years	Up to 18 months	
lumidity	095 %rh non-condensing		
helf Life	Unlimited	Up to 3 months	
alibration Interval (application dependent)	12 months	36 months	
Display Dutput Signal	420 mA		
Pisplay	LCD		
, ,			
Digital Communications	RS232		
Pigital Output Options	1 off relay, dry contact 5 Amp-rated		
lectrical Interface	(2 relay outputs assigned to control light tower indicator)		
ower Supply	2 x 12-way electrical terminal block 85230 V AC (5060 Hz)		
ower Supply Maximum Power Consumption	6 W	C (5060 Hz)	
ndicators		Z.4 vv nd visual alarms	
Mechanical	ECD, addible al		
ample Connection	6 mm or 1/4" compression fitting		
ample Gas	21 barg (300 psig) maximum		
nternal Regulation	Sample pressure and flow Factory-set at 0.3 barg (5 psig); 0.55 SCFH (250 ml/m)		
ngress Protection	IP65		
lousing Material	ABS (Rittal mild steel enclosure option available)		
1ounting	Wall / vertical surface		

### Dimensions (mm)





### **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 %	-	

ABS enclosure option pictured.



Ntron Gas Measurement Ltd. is part of the Process Sensing Technologies Group plc (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).

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.