

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.



ABS model pictured. Rittal mild steel enclosure option also available.



Highlights

- Measurement ranges cover 0...1000 ppm_v, 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

- O₂ and N₂ gas generation
- Industrial gas
- Medical gas
- Pharmaceutical
- Additive Manufacturing

Technical Specifications

Sensor		
	Zirconia (ZR)	Electrochemical (EC)
Measurement Range	0...1,000 ppm _v 0...25 %, 0...96 %	0...1,000 ppm _v 0...25 %
Accuracy	Please see Accuracy Table below for specific point details.	
Output Resolution (4...20 mA)	1 ppm _v / 0.01 %	0.5 ppm _v / 0.01 %
Lower Detection Limit (LDL)	1 ppm _v (ppm ranges) / 0.01 % (% ranges)	
Sample Flow Rate (application dependent)	100...500 ml/min (250 ml/min optimal) in a vented atmosphere. Set at Factory.	
Pressure Range	900...1100 mBar _{abs} (13...16 psi)	
Response 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)
Life Expectancy (application dependent)	Up to 5 years	Up to 18 months
Humidity	0...95 %rh non-condensing	
Shelf Life	Unlimited	Up to 3 months
Calibration Interval (application dependent)	12 months	3...6 months
Analyzer		
Electrical		
Display	LCD	
Output Signal	4...20 mA	
Digital Communications	RS232	
Digital Output Options	1 off relay, dry contact 5 Amp-rated (2 relay outputs assigned to control light tower indicator)	
Electrical Interface	2 x 12-way electrical terminal block	
Power Supply	85...230 V AC (50...60 Hz)	
Maximum Power Consumption	6 W	2.4 W
Indicators	LCD, audible and visual alarms	
Mechanical		
Sample Connection	6 mm or 1/4" compression fitting	
Sample Gas	21 barg (300 psig) maximum	
Internal Regulation	Sample pressure and flow Factory-set at 0.3 barg (5 psig); 0.55 SCFH (250 ml/m)	
Ingress Protection	IP65	
Housing Material	ABS (Rittal mild steel enclosure option available)	
Mounting	Wall / vertical surface	
Compliance		
EMC: EN 50270, UKCA		

Dimensions (mm)



ABS enclosure option pictured.

! CAUTION

Ntrion 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).

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 %	-

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.