

# Industrial oxygen sensor

Electrochemical current type micro oxygen sensor is used for PPM oxygen measurement

## PSR-12-223

### specifications

measuring range	0-10,000 ppm O <sub>2</sub>
Signal output (10,000ppm)	14-30μA
Signal output (air)	295-625 μA
sensitivity	1.4-3.0 nA /ppm O <sub>2</sub>
Response time (T90)	3 S
Accuracy (2)	± 1% F.S.
Working temperature range on Accuracy (3)	± 5% F.S.
Drift(percentage change of monthly signal) (2)	< 1%
Linear (2)	± 1% F.S.
No condensation humidity	0-99% RH
temperature coefficient	2.54%/°C
working temperature	0-45°C
working pressure range	0.5-2bar absolute pressure
Pressure characteristics	differential pressure
velocity of flow	0-2.5 LPM
Life expectancy (1)	24 Month
memory	<3 months
Recommended storage temperature (4)	0-40°C
Warranty (5)	12 Month
Electrical connections	2 loop PCB



NOTE:  
FOR OPTIMUM PERFORMANCE  
THIS END FACING DOWN OR  
HORIZONTAL



**pay attention to :** Use immediately after removal. Do not expose the sensor to air for a long time after removal. Failure to comply with this requirement may adversely affect the performance and life of the sensor.

1. At a temperature of 25°C and a pressure of 1 atmosphere in an oxygen environment of less than 1000ppm, the expected life is inversely proportional to changes in oxygen concentration, temperature and pressure.
2. Under constant conditions, the calibration should be as close as possible to the sample conditions. The sensing surface should be down.
3. When the signal output is stable after the step change of temperature.
4. Recommended operating temperature range is 0-40°C. The sensor can be stored intermittently in the temperature range of -10 to 55°C.
5. Unless otherwise specified in writing, the product shall take effect upon factory delivery. Under normal application conditions and with proper installation and operation, the sensor shall remain free from material or process defects within the specified period. Analytical Industries Inc. shall not be liable for any sensor issues arising from the Buyer's negligence, misuse, modification, or abuse. Any defects confirmed by Analytical Industries Inc.

The only remedy for a defective sensor is to replace the sensor.



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Analytical Industries, Inc. is a member of the Process Sensing Technologies Group (PST). The information provided by the original manufacturer is not legally binding as the customer application is outside the scope of PST control.

The Customer Shall Test the Equipment Under Its Own Conditions to Ensure That the Equipment Is Suitable for the Intended Application.

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