

Electrochemical Galvanic Trace O₂ Sensor for PPM Oxygen Measurement

PSR-12-223

Specifications

Measuring range	0-10,000 ppm O ₂
Signal Output (10,000ppm)	14-30μA
Signal Output (Air)	295-625 μA
Sensitivity	1.4-3.0 nA /ppm O ₂
Response Time (T90)	3 Seconds
Accuracy ⁽²⁾	± 1% F.S.
Accuracy Over Operating Temperature Range ⁽³⁾	± 5% F.S.
Drift (% Signal Month) ⁽²⁾	< 1%
Linearity ⁽²⁾	± 1% F.S.
Humidity non-condensing	0-99% RH
Temperature Coefficient	2.54%/°C
Operating Temperature	0-45°C
Operating Pressure Range	0.5-2bar absolute
Pressure dependency	Partial Pressure
Flow Rate	0-2.5 LPM
Expected Life ⁽¹⁾	24 Months
Storage Duration	< 3 months
Recommended Storage Temperature ⁽⁴⁾	0-40°C
Warranty ⁽⁵⁾	12 Months
Electrical Connections	PCB 2 Ring



NOTE:
FOR OPTIMUM PERFORMANCE
THIS END FACING DOWN OR
HORIZONTAL



Note: Use sensor immediately after removing from the packaging. After removing, do not leave the sensor in air for an extended period of time. Failure to do so may have a negative impact on its performance and life.

1. At 25° C, <1000 ppm, and 1 bar. Expected life decreases with increases in O₂ concentration, temperature, and pressure.
2. Under constant conditions. Calibrate as near sample conditions as possible. Sensing surface should point downward.
3. Once the signal output stabilizes following a step change in temperature.
4. Recommended 0-40° C. Sensors may be stored at -10 to 55° C on an intermittent basis only.
5. Ex-factory unless agreed to in writing. Under normal application conditions sensor is warranted to be free of defects in material and workmanship for the period specified above provided the sensor is properly installed and operated. Analytical Industries Inc. shall not be liable for buyer's negligence, misapplication, alteration, or abuse. The sole remedy for a sensor determined to be defective by Analytical Industries Inc. is limited to replacing the defective sensor.

ⓘ CAUTION

Analytical Industries Inc. 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).

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