

PPM Oxygen Sensor

Model: SRX-MGP-41

SRX-MGP-41 PPM Oxygen Sensor is a galvanic type micro fuel cell specific to oxygen. Its innovative design with electro-etched sensing cathode provides with extremely smooth sensing surface for excellent signal stability. Proprietary electrolyte formulation enhances sensor performance at extreme ends of recommended temperature range. Coiled shape anode eliminates the possibility of air bubble entrapment in typical crushed Pb granulars anode, thus resulting spike free oxygen signal. Sensor is designed, developed and manufactured in the USA.

SRX-MGP-41 replaces: IT Gambert P-41

Specifications*



Sensor Technology	Galvanic Type Micro Fuel Cell
Measuring Range	100 to 10,000 PPM
Signal Output ¹	340 - 580 uA
Response Time	Under 180 sec from air to 1,000 ppm
Accuracy ²	+/- 1% of signal
Drift ²	< 2%
Linearity	+/- 1%
Repeatability	+/- 0.5%
Temperature Coefficient	2.0% / °C
Operating Temperature	0 to 50°C
Storage Temperature	5 to 25°C max 45°C
Recommended Flow Rate	0.5 - 5 SCFH
Humidity Non-Condensing	0 - 99% RH
Expected Life ³	12 months
Recommended Storage	3 months
Warranty ⁴	12 months
PCB Connections	Center Negative Outer Positive

Note: SRX-MGP-41 is packaged in a metalized bag which is then placed in 4"x3"x2" box. Use sensor immediately after removing from the sealed bag. After removing, do not leave sensor in air for extended period of time. Failure to do so may have negative impact on its performance and life.

1. Signal Output measured in air at 25°C and at atmospheric pressure.
2. At constant temperature and pressure.
3. At operating temperature less than 35°C, atmospheric pressure and oxygen content in sample under 10,000 ppm.
4. AST warrants the sensor for 12 months to be free from defects in materials and workmanship. AST will not be held liable for sensor damaged due to customer neglect or misuse.

* Specifications are validated during design and are subject to change without notice.