APPLIED SENSING TECHNOLOGIES

PPM Oxygen Sensor

Model: SRZ-MGP-41A

SRZ-MGP-41A 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 electolyte formulation offers excellent compatibility with sample gas containing acid gases such as CO_2, traces levels of $H2_S$ and SO_2. Sensor is designed, developed and manufactured in the USA.

SRZ-MGP-41A replaces: IT Gambert P-41A

Specifications*

Sensor Technology	Galvanic Type Micro Fuel Cell
Measuring Range	0.1 to 10,000 PPM
Signal Output[1]	322 - 598 uA
Response Time T90	7 seconds
Accuracy [2]	+/- 1% of signal
Drift[2]	< 2%
Linearity	+/- 1%
Repeatability	+/- 0.5%
Temperature Coefficient	2.0% / °C
Operating Temperature	0 to 45°C
Storage Temperature	0 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: SRZ-MGP-41A is packaged in a metalized bag which is then placed in 4"x3"x2" box. Use sensor immediately after removing from the sealed bag. 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 under 35°C, atmospheric pressure and oxygen content in sample gas less than 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.

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