

GS-33 Oxygen Sensor is a galvanic type micro fuel cell specific to oxygen. Its innovative design with electro-etched sensing cathode provides an extremely smooth sensing surface for excellent signal stability. Proprietary electrolyte formulation ensures full utilization of the Pb anode thus providing longer life without signal drift and minimizing periodic calibration requirement. The sensor was designed and developed in the USA and is manufactured in Taiwan.

GS-33 replaces: Teledyne C3, AII PSR-11-330, AMI P4
AST SRX-CT-33



Specifications*

Sensor Technology	Galvanic Type Micro Fuel Cell
Measuring Range	0 to 100 Percent Oxygen
Signal Output ¹	165-235 uA
Response Time T90	13 seconds
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 35°C
Recommended Flow Rate	0.5 - 5 SCFH
Humidity Non-Condensing	0 - 99% RH
Expected Life ³	15 months
Recommended Storage	6 months
Warranty ⁴	12 months
PCB Connections	Center Negative Outer Positive

Note: GS-33 is packaged in a polyethylene bag which is then placed in 4" x 3" x 2" box. Do not expose sensor to temperatures above 50°C for an extended period. Doing so may have a negative impact on its performance and life.

1. Signal Output measured in air at 25°C 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 21%
4. AUT warrants the sensor for 12 months to be free from defects in materials and workmanship. AUT will not be held liable for sensor damaged due to customer neglect.

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