

% Oxygen Sensor

Model: AST-75D

AST-75D Oxygen Sensor is a galvanic type micro fuel cell specific to oxygen. Its innovative design with proprietary Pb anode structure provides with excellent stability and ensures full utilization of the anode without signal drift thus minimizing frequent periodic calibration requirement. Sensor is designed, developed and manufactured in the USA.

AST-75D Replaces: All Model All-11-75
OEM Equipment: All Trimix 4001 Analyzer

Specifications*



Sensor Technology	Galvanic Type Micro Fuel Cell
Measuring Range	0 to 100 Percent Oxygen
Signal Output ¹	11-14 mV
Response Time T90	7 seconds
Accuracy ²	+/- 2% at 100% Oxygen
Drift ²	< 2%
Linearity	+/- 2%
Repeatability	+/- 1%
Temperature Coefficient	None, Signal is Temp Compensated
Operating Temperature	0°C to 50°C
Storage Temperature	5°C to 35°C
Recommended Flow Rate	0.5 - 5 SCFH
Humidity Non-Condensing	0 - 99% RH
Expected Life ³	42 months
Recommended Storage	6 months
Warranty ⁴	12 months
PCB Connections	Three PIN Molex (No Middle PIN)

Note: Do not expose sensor to temperatures above 50°C for extended period of time. Failure to do so may have negative impact on its performance and life. For best results, calibrate before use.

1. Signal Output measured in air at 25°C, and at atmospheric pressure.
2. At constant temperature and pressure. For each %RH increase, O₂ signal will drop equivalent to 0.03% oxygen.
3. At ambient temperature and pressure, and oxygen content at 21%.
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 and any consequential damage in using the sensor.

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