

% Oxygen Sensor

Model: AST-17D

AST-17D Oxygen Sensor is a galvanic type micro fuel cell specific to oxygen. Proprietary electrolyte formulation ensures full utilization of Pb anode, thus providing longer life without signal drift and minimizing periodic calibration requirement. Sensor is designed, developed and manufactured in the USA.

AST-17D Replaces: Teledyne R17S, City Tech CT-2
Analytical Industries Inc. PSR-11-39-J
IT Gambert D-01



Specifications*

Sensor Technology	Galvanic Type Micro Fuel Cell
Measuring Range	0 to 100 Percent Oxygen
Signal Output ¹	9-14 mV
Response Time T90	7 seconds
Accuracy ²	+/- 2% of signal
Drift ²	< 2%
Linearity	+/- 2%
Repeatability	+/- 0.5%
Temperature Coefficient	NONE - signal output is temperature compensated
Operating Temperature	0 to 40°C
Recommended Storage Temperature	5 to 35°C - Intermittent exposure up to 50°C
Recommended Flow Rate	0.5 - 5 SCFH
Humidity Non-Condensing ²	0 - 98% RH
Expected Life ³	36 months
Recommended Storage	6 months
Warranty ⁴	12 months
Electrical Connections - Mini Jack .141"	Tip - Negative, Sleeve - Positive
Front	M16 x 1 Thread

Note: AST-17D is designed as a component for breathing air equipment to check oxygen content in a gas mixture., user must verify its compatibility with intended equipment. For optimal accuracy, sensor must be calibrated before each use. 90%. Do not expose sensor above 50°C 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; 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.

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