AST
APPLIED SENSING TECHNOLOGIES

PPM Oxygen Sensor
Model: Insta O2-A

AST Model Insta O2-A Trace PPM, a quick response oxygen sensor comes in a unique configuration that allows sensor to recover from air to 1 PPM in minutes after installation. Its a drop-in replacement to Teledyne Insta Trace-CO2 Part Number B73016 oxygen sensor.

A protective membrane in front of Insta O2 acts as a barrier to oxygen in air. After installation, protective membrane is automatically punctured within the sensor housing, thus allowing a speedy recovery to 1 PPM in just 15 minutes. Sensor is designed, developed and manufactured in the USA.

Model Insta O2-A Replaces: Teledyne Insta Trace-CO2 B73016

Specifications*

Sensor Technology	Galvanic Type Micro Fuel Cell
Optimum Measuring Range	0 to 10 PPM
Signal Output[1]	460 - 625 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 45°C
Recommended Flow Rate	0.5 - 5 SCFH
Humidity Non-Condensing	0 - 99% RH
Expected Life[3]	18 months
Recommended Storage	6 months
Warranty[4]	12 months
PCB Connections	Center Negative, Outer Positive
Size	1.25x1.27

Note: AST Model Insta O2-A is sealed in a metalized bag filled with nitrogen. Use immediately after removing from sealed bag. Do not puncture the front protective membrane, failure to do so will cause slow recovery from air to low PPM. This sensor is recommended for gas streams containing CO2, for inert and gaseous hydrocarbons gas streams use AST Model Insta O2

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 30°C, at atmospheric pressure, and oxygen content 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.