

# PPM Oxygen Sensor

## Model: Insta O2

AST Model Insta O2 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 B71875 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 Replaces:** Teledyne  
Insta Trace B71875



### Specifications\*

Sensor Technology	Galvanic Type Micro Fuel Cell
Optimum Measuring Range	0 to 10 PPM
Signal Output <sup>1</sup>	460 - 625 uA
Response Time T90	7 seconds
Accuracy <sup>2</sup>	+/- 1% of signal
Drift <sup>2</sup>	< 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 <sup>3</sup>	18 months
Recommended Storage	6 months
Warranty <sup>4</sup>	12 months
PCB Connections	Center Negative, Outer Positive
Size	1.25x1.27

Note: AST Model Insta O2 is packaged 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 inert and gaseous hydrocarbons gas streams. For gas streams containing CO<sub>2</sub>, use AST Model Insta O2-A

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.