

**GS-23** 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-23** replaces: Teledyne B3, AII PSR-11-23, GE OX3  
AST SRX-CT23

## Specifications\*

|                            |                                   |
|----------------------------|-----------------------------------|
| Sensor Technology          | Galvanic Type Micro Fuel Cell     |
| Measuring Range            | 0 to 100 Percent Oxygen           |
| Signal Output <sup>1</sup> | 245-395 uA                        |
| Response Time T90          | 13 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 50°C                         |
| Storage Temperature        | 5 to 35°C                         |
| Recommended Flow Rate      | 0.5 - 5 SCFH                      |
| Humidity Non-Condensing    | 0 - 99% RH                        |
| Expected Life <sup>3</sup> | 15 months                         |
| Recommended Storage        | 6 months                          |
| Warranty <sup>4</sup>      | 12 months                         |
| PCB Connections            | Center Negative<br>Outer Positive |

**Note:** GS-23 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 ambient temperature and pressure.
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.