

% Oxygen Sensor

Model: SRX-CTR31

SRX-CTR31 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.

SRX-CTR31 replaces: Teledyne R33S, R33D, Analox 9212-0
IT-G D-03, UBS O2 Stick



Specifications*

| | |
|--------------------------------------|---|
| Sensor Technology | Galvanic Type Micro Fuel Cell |
| Measuring Range | 0 to 100 Percent Oxygen |
| Signal Output ¹ | 23-27 mV |
| Response Time T90 | 6 seconds |
| Accuracy ² | +/- 1% of signal |
| Drift ² | < 2% |
| Linearity | +/- 1% |
| 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 upto 50° C acceptable |
| 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 | 2-PIN Female Molex on wires |
| Front | Flate |

Note: SRX-CTR31 is packaged in a polyethylene bag. 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.

1. Signal Output measured in air at 25°C, 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 less than 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.