# Oxygen Sensor Model

PST PROCESS SENSING TECHNOLOGIES

Analytical Industries Inc
A PST BRAND

## PSR-11-75-KE1



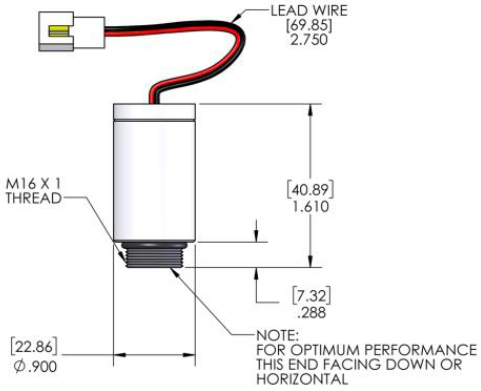
*Advanced galvanic type % oxygen sensors with excellent stability and accuracy under stringent applications. All % oxygen sensors are subjected to the most extensive stability test, output in air, 30" of water column pressure test and stability at 100% oxygen.*

*The widest range of oxygen sensors offered by Analytical Industries, Inc. are "Made in USA".*

## Specifications

| | |
|---|---|
| Measuring range | 0-100% $O_2$ |
| Signal Output (1) | 10-14.5 mV |
| Sensitivity | 1.67-2.63 µA/% $O_2$ |
| Response Time 90% | 13 Seconds |
| Accuracy Full Scale (2) | ± 1% |
| Accuracy FS Over Operating Temperature (3) | ± 5% |
| Drift (% Signal Month) (2) | < 1% |
| Linearity (2) | ± 1% |
| Humidity non-condensing | 0-99% RH |
| Temperature Coefficient | Compensated |
| Operating Temperature | 0-45°C |
| Operating Pressure | Constant 5-30 PSIG |
| Flow Rate | .1-10 LPM |
| Expected Life (1) | 60 Months |
| Storage (4) | 0 to 40°C |
| Warranty (5) | 24 Months |
| Electrical Connections | Conn Plug 2 Position |
| Packaging | Polyetylene bag in 3" x 3" x 1.5" paper box |
| Recommended Storage | < 6 months |

## Product Dimensions




(1) In air @ 25° C and 1 atm. Expected life varies inversely with changes in O2 concentration, temperature, pressure.

(2) Under constant conditions. Calibrate as near sample conditions as possible. Calibrate with 95-100% oxygen for measurements > 40% oxygen.

(3) Once the signal output stabilizes following a step change in temperature.

(4) Recommended 0-40° C. Sensors may be stored at -10 to 55° C on an intermittent basis only.

(5) Ex-factory unless agreed to in writing. Under normal application conditions sensor is warranted to be free of defects in material and workmanship for the period specified above proved the sensor is properly installed and operated. Analytical Industries Inc. shall not be liable for buyer's negligence, misapplication, alteration or abuse. The sole remedy for a sensor determined to be defective by Analytical Industries Inc. is limited to replacing the defective sensor.

CAUTION

Analytical Industries Inc.is part of the Process Sensing Technologies Group (PST).
As customer applications are outside of PST control, the information provided is given without legal responsibility.
Customers should test under their own conditions to ensure the equipment is suitable for the intended application(s).

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