SOUTHLAND SENSING
MEASURE. ANALYZE. CONTROL.

TO2-19 PPM / Percent Oxygen Sensor

Product Specification Sheet

Electrochemical Galvanic Fuel Cell Hybrid Oxygen Sensor



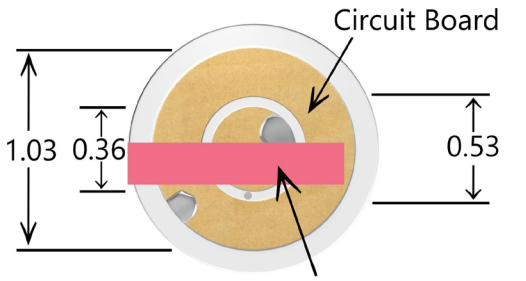
- Measures Oxygen From 45 PPM to 25.0%
- Electrochemical Fuel Cell Sensor Technology
- Self-Contained, No Need To Add Electrolyte
- Excellent Stability, Performance & Linearity
- Continuous And Spot Checking Analysis

Specifications:

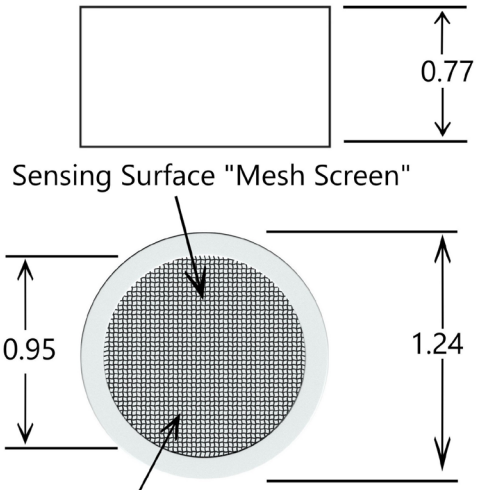
Sensor Technology	Micro Fuel Cell
Signal Output[1]	285 - 590 uA
Measuring Range	0 - 1000 PPM (Min) 0 - 25 % (Max)
Lower Detectable Limit	45 PPM
Response Time T90	13 Seconds
Accuracy Full Scale[2]	± 1% of Signal
Repeatability F.S.	± 0.5%
Temp Coefficient	2.54 % / ° C
Operating Temp	0 to 50 ° C
Storage Temp	0 to 45 ° C
Recommended Flow	0.5 - 5 SCFH
Humidity	0 - 100% RH (Non-Condensing)
Expected Life[3]	12 - 15 Months
Storage	6 Months
Warranty[4]	12 Months
PCB Connection	CenterFoilNegative Outer Foil Positive

Suggested Applications:

3D Metal Printing & Inert Chambers
Inert Welding of exotic materials
Natural Gas Applications 45 PPM to 1000 PPM



REMOVE RED SHORTING FLAG PRIOR TO USE.



For optimum operation, Mesh Screen should be facing down or sideways.

1. Signal Output is measured in air at 25 ° C, Sea Level.

2. Full Scale Accuracy is calculated with constant pressure, temperature, and proper calibration (80% O2 Value on Full Scale Range or a range higher). Drastic Temperature change can result in a maximum error of ± 10%.

3. Expected life is calculated when O2 < 1000 ppm @ 25 ° C, Sea Level.

4. Southland Sensing Ltd. warranties the sensors for the period noted above to be free from defects in materials and workmanship. SSO2 will not be held liable for sensors damaged due to customer neglect.

4. Southland Sensing Ltd. sensors are tested and validated to BSI Standard BS EN 50104:2010

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Designed, Tested, and Assembled in California, USA
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