

## Datasheet: iSense Oxygen Transmitter – NEMA4



This long life 0-25% or 0-95% oxygen level transmitter provides multiple analog linear outputs of O<sub>2</sub> concentrations. It is designed to be rugged, maintenance-free and can be calibrated in normal air of any known oxygen concentration.

### FEATURES:

- Measuring ranges 25% or 95% Oxygen
- Can be calibrated in normal air or any known O<sub>2</sub> concentration
- Non-consumptive technology
- Automatic or manual calibration
- Linear 0...10 V, 4...20 mA or RS232 output of measured oxygen content
- High accuracy

### *O<sub>2</sub> Measurement*

Measurement Range .....	0 – 25%
Sensing Method .....	Zirconium dioxide (ZrO <sub>2</sub> )
Sampling Method .....	diffusion
Response Time .....	4 sec max diffusion time
Sensitivity .....	± 20 ppm ± 1 % of measured value
Accuracy .....	2% full scale
Pressure Range .....	2 to 3000 mbar

### *General Performance*

Operating Temperature Range .....	-10 to +70 °C
Storage Temperature Range .....	-10 to +70 °C
Operating Humidity Range .....	0 to 95% RH (non-condensing)
Sensor Life Expectancy .....	> 10 years
Maintenance Interval .....	no maintenance required
Self-Diagnostics .....	complete function check of the sensor module
Warm-up Time .....	≤ 100 sec
Operating Environment .....	Laboratory, residential, commercial, industrial spaces

### *Electrical/Mechanical*

Power Input.....	24VDC ±10%
Current Consumption .....	600 mA @ 24VDC
Dimensions .....	4.72 x 3.15 x 3.15 inches

### *Communication*

Analog .....	Linear 0 to 10V
	Linear 4-20mA
Digital .....	RS232