



## Nitric Oxide, NO, 100ppm (823-1027-11-R)

Minimum Indicated Concentration.....	3 ppm
Repeatability.....	5%, Successive exposure
Accuracy .....	10% of Indication
Span Drift.....	< 2% change/month (typical)
PolyScreen <sup>1</sup> Response Time (Rise) .....	T <sub>90</sub> < 7 sec, T <sub>50</sub> < 4 sec
PolyScreen <sup>1</sup> Recovery Time (Fall).....	T <sub>10</sub> < 70 sec
SMD <sup>1</sup> Response Time (Rise) .....	T <sub>90</sub> < 115 sec, T <sub>50</sub> < 30 sec
SMD <sup>1</sup> Recovery Time (Fall).....	T <sub>10</sub> < 120 sec
Operating Temperature Range .....	-20 to 50°C (-4 to 122°F)
Storage Temperature Range.....	3 to 20°C (37 to 68°F)
Operating Humidity Range* .....	0 - 95% RH, non-condensing
Operating Pressure Range.....	Ambient Atmospheric ±1.5psi
Sensor Life (Expected) .....	Standard: 3 years, normal service
Calibration Frequency .....	Monthly (recommended)
Calibration Concentration .....	30 - 80 % of full scale
Calibration Flowrate.....	0.5 LPM (recommended)
Oxygen Requirement.....	1% by volume, minimum

**Bias Voltage .....** +300mV

**Warm-Up/Stabilization Time .....** 1 to 6 hours, depending on bias condition

<sup>1</sup> Polymer Screen on sensor holder, large mesh, SMD = Sintered Metal Disk flame arrester on sensor holder.

### Cross-Interferences\*

Gas	Gas Exposure	Sensor Output
Carbon Monoxide	300 ppm	None
Chlorine	1 ppm	None
Hydrogen Cyanide	10 ppm	None
Hydrogen Sulfide	~3 ppm	+1 ppm
Nitric Oxide	1 ppm	+1 ppm
Nitrogen Dioxide	3.3 ppm	+1 ppm
Sulfur Dioxide	20 ppm	+1 ppm

\* Interference factors may differ from sensor to sensor, it is not advisable to calibrate with interferent gases.  
None of the interferents listed will poison or inhibit the sensor.

### Special Calibration Considerations:

- **Zeroing The Sensor**  
There are no special zeroing considerations for this sensor.
- **Span Calibration**  
It is recommended that this sensor be calibrated at the half-scale concentration of 50 ppm NO. A two to three minute pre-calibration exposure is recommended to ensure the gas is stable for calibration. Teflon or HDPE tubing (30"/76cm max. length) must be used to deliver the gas.