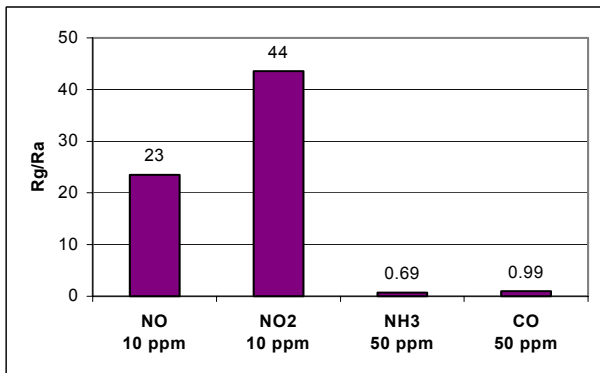


Sensor Features

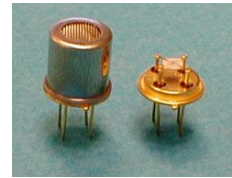
- Reliable solid state metal oxide technology
- Rugged, long lasting sensor
- Large dynamic range
- Tolerates a wide range of temperature, pressure and humidity levels
- Low cost



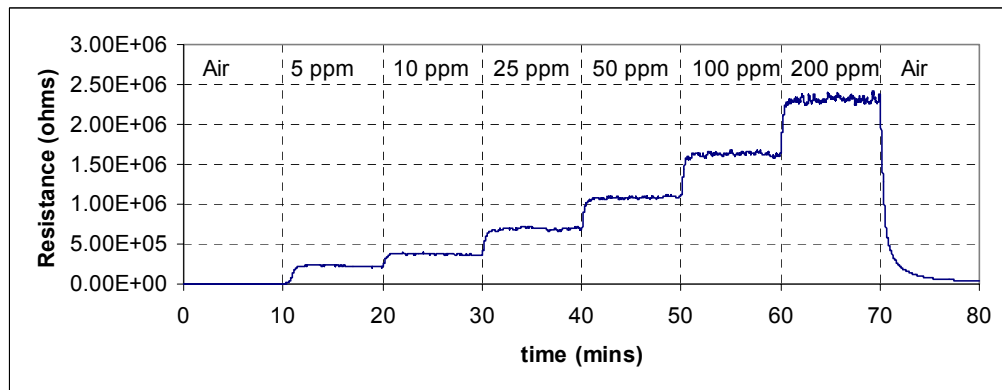
Selectivity: Relative response (resistance in gas/resistance in air) is reported, R_g/R_a = 1 is no response.

Performance Characteristics

Nominal Range	0 to >200 ppm
Maximum Overload	TBD
Expected Operating Life	>5 years
Output Signal (R _{air})	5-10 kΩ
Output Signal R _{10 ppm}	Approx. 150 kΩ
Temperature Range	-40°C to +100°C minimum
T50 Response Time	Approx. 30 seconds
T90 Response Time	<90 seconds
Relative Humidity Range	0 to 99 % non-condensing
Long Term Output Drift	TBD
Average Repeatability	± 15%
Output Characteristic	Logarithmic



Sensor in package



Average sensor response to NO₂

Electrical Characteristics

Property	Symbol	Value	Remarks
Heater Power Consumption	P _{HL}	~ 900 mW	At V _H = 7.0
Heater Voltage	V _{HL}	7.0 VDC	T _{sensor} ~300°C
Heater Resistance	R _H	32Ω ± 2 Ω	At room temperature
Sensing Voltage	V _C	2 - 5 VDC	Recommended