

SENSOR FEATURES:

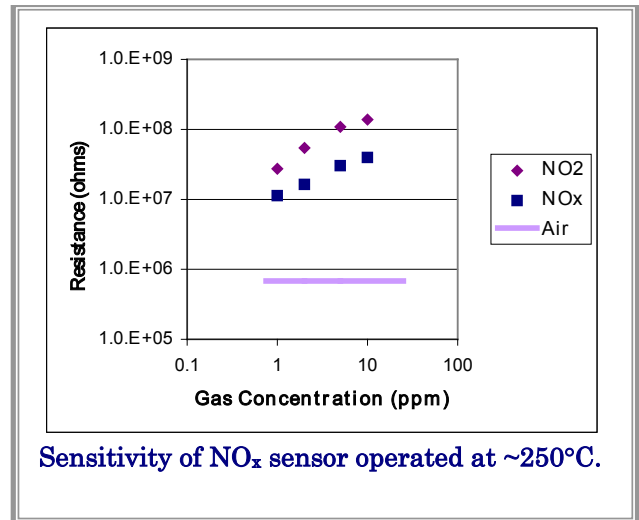
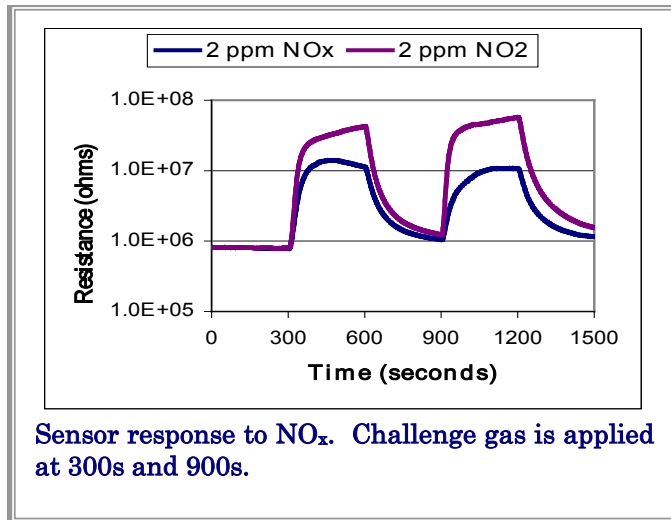
- Sensor detects very low NO_x concentrations (<0.5 ppm to 10 ppm)
- Larger dynamic range available (5 ppm to 100 ppm, may require larger power input to heater)
- Environmental temperature range of –20 to 50°C
- Environmental humidity range of 0 to 90% RH, non-condensing
- Low dependence on flow rate

Typical NO_x Sensor Selectivity

| Challenge Gas | Concentration | R _g /R _a or –R _a /R _g |
|-----------------|---------------|---|
| NO ₂ | 10 ppm | 200 |
| NO _x | 10 ppm | 45 |
| H ₂ | 100 ppm | -2.2 |
| NH ₃ | 25 ppm | -1.1 |
| CO ₂ | 5% | No response |
| SO ₂ | 5 ppm | No response |
| CH ₄ | 1% | No response |

Sensor Response Characteristics

The figures below show typical response data for sensors operated in clean, dry gas.



Electrical Characteristics

The electrical properties below are typical for the Low Level NO_x Sensor prototypes. If the actual values differ the customer will be notified with the shipment. Circuits are available that will be preset to the correct values.

| Property | Symbol | Value | Remarks |
|--------------------------|-----------------|-----------|----------------------------|
| Heater Power Consumption | P _{HL} | ~ 500 mW | At V _H = 4.7 |
| Heater Voltage | V _{HL} | 4.7 VDC | T _{sensor} ~200°C |
| Heater Resistance | R _H | 32Ω ± 2 Ω | At room temperature |
| Sensing Voltage | V _C | 5.0 VDC | Recommended |