

Midas[®] SENSOR CARTRIDGE SPECIFICATIONS

Nitric Oxide (NO) MIDAS-S-NOX, MIDAS-E-NOX



| Gas Measured | Nitric Oxide (NO) |
|---|--|
| Cartridge Part Number | MIDAS-S-NOX 1 year standard warranty MIDAS-E-NOX 2 year extended warranty |
| Sensor Technology | 3 electrode electrochemical cell |
| Measuring Range (ppm) | NO 0 – 100ppm |
| Minimum Alarm 1 Set Point | 12.5ppm |
| Repeatability | < ± 2% of measured value |
| Linearity | < ± 5% of measured value |
| Response Time $t_{0.5}$ | < 15 seconds |
| Sensor Cartridge Life Expectancy | ≥ 24 months under typical application conditions |
| Operating Temperature | 0°C to +40°C (32°F to 104°F) |
| Effect of Temperature | < ± 0.09ppm / °C (0°C to 30°C) < ± 0.17ppm / °C (30°C to 40°C) |
| Zero Sensitivity | < ± 0.5% of measured value / °C |
| Operating Humidity (continuous) | 15 – 90% rH |
| Effect of Humidity | No effect |
| Zero Sensitivity | < ± 0.5% of measured value / % rH |
| Operating Pressure | 90 – 110kPa |
| Effect of Position | No effect in typical application |
| Long Term Drift | No drift |
| Zero Sensitivity | < 2% of measured value / month |
| Calibration Gas | Nitric Oxide (NO) |
| Challenge Gas (Bump Test) | Nitric Oxide (NO) |
| Warm Up Time | < 10 minutes |
| Storage Temperature | +5°C to +25°C (+41°F to +77°F) |

The sensor data listed is based on ideal test environment; observed performance may vary based on the actual monitoring system and the sampling conditions employed

Cross Sensitivities

Each Midas[®] sensor is potentially cross sensitive to other gases and this may cause a gas reading when exposed to other gases than those originally designated. The table below presents typical readings that will be observed when a new sensor cartridge is exposed to the cross sensitive gas (or a mixture of gases containing the cross sensitive species).

| Gas / Vapor | Chemical Formula | Concentration applied (ppm) | Reading (ppm NO) |
|-------------------|------------------|-----------------------------|------------------|
| Carbon Monoxide | CO | 300 | 0 |
| Hydrogen Sulphide | H ₂ S | 15 | 1.5 |
| Nitrogen Dioxide | NO ₂ | 5 | < 1.5 |
| Sulphur Dioxide | SO ₂ | 5 | 0 |

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