Honeywell

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 $t_{62.5}$	< 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)
Zero	< ± 0.17ppm / °C (30°C to 40°C)
Sensitivity	< ± 0.5% of measured value / °C
Operating Humidity (continuous)	15 – 90% rH
Effect of Humidity	
Zero	No effect
Sensitivity	< ± 0.5% of measured value / % rH
Operating Pressure	90 – 110kPa
Effect of Position	No effect in typical application
Long Term Drift	
Zero	No drift
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_2S	15	1.5
Nitrogen Dioxide	NO_2	5	< 1.5
Sulphur Dioxide	SO_2	5	0

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