Honeywell

Midas® SENSOR CARTRIDGE SPECIFICATIONS

Nitrogen Dioxide (NO_2)
MIDAS-S-NO2, MIDAS-E-NO2

Gas Measured	Nitrogen Dioxide (NO_2)
Cartridge Part Number	MIDAS-S-NO2 1 year standard warranty MIDAS-E-NO2 2 year extended warranty
Sensor Technology	3 electrode electrochemical cell
Measuring Range (ppm)	NO_2 0 – 12ppm
Minimum Alarm 1 Set Point	1.50ppm
Repeatability	< ± 2% of measured value
Linearity	< ± 10% 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	
Zero	< ± 0.01ppm / °C
Sensitivity	< ± 0.7% 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	Nitrogen Dioxide (NO_2)
Challenge Gas (Bump Test)	Nitrogen Dioxide (NO_2)
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_2)
Carbon Monoxide	CO	300	0
Chlorine	Cl_2	1	1
Hydrogen Sulphide	H_2S	15	- 1.2
Nitric Oxide	NO	35	0
Sulphur Dioxide	SO_2	5	0

Find out more

www.honeywellanalytics.com

Toll-free: 800.538.0363

Please Note:
While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This publication is not intended to form the basis of a contract.

SS01115T_v2 8/17
© 2017 Honeywell Analytics