

Midas[®] SENSOR CARTRIDGE SPECIFICATIONS

Carbon Monoxide (CO) MIDAS-S-COH, MIDAS-E-COH



Gas Measured	Carbon Monoxide (CO)
Cartridge Part Number	MIDAS-S-COH 1 year standard warranty, MIDAS-E-COH 2 year extended warranty
Sensor Technology	3 electrode electrochemical cell
Measuring Range (ppm)	CO 0 – 100ppm
Minimum Alarm 1 Set Point	12.5ppm
Repeatability	< ± 2% of measured value
Linearity	< ± 2% of measured value
Response Time t62.5	≤ 60 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 Sensitivity	< ± 0.035ppm / °C < ± 0.8% of measured value / °C
Operating Humidity(continuous)	15 – 90% rH
Effect of Humidity	
Zero Sensitivity	< ± 0.02ppm of measured value / % rH No effect
Operating Pressure	70 – 110kPa
Effect of Position	No effect in typical application
Long Term Drift	
Zero Sensitivity	< 2ppm / year < ± 5% of measured value / year
Calibration Gas	Carbon Monoxide (CO)
Challenge Gas (Bump Test)	Carbon Monoxide (CO)
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 CO)
Hydrogen Sulphide	H ₂ S	15	-0.5 < x ≤ +0.5
Sulphur Dioxide	SO ₂	5	0
Nitrogen Dioxide	NO ₂	5	< 0.5
Hydrogen	H ₂	100	-5 < x ≤ +5
Nitric Oxide	NO	35	12
Ethene	C ₂ H ₄	100	60

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www.honeywellanalytics.com
Toll-free: 800.538.0363

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