

Midas[®] SENSOR CARTRIDGE SPECIFICATIONS

Sulphur Dioxide (SO₂) MIDAS-S-SO2, MIDAS-E-SO2



Gas Measured	Sulphur Dioxide (SO ₂)
Cartridge Part Number	MIDAS-S-SO2 1 year standard warranty MIDAS-E-SO2 2 year extended warranty
Sensor Technology	3 electrode electrochemical cell
Measuring Range (ppm)	SO ₂ 0 – 8ppm
Minimum Alarm 1 Set Point	1.00ppm
Lower Detectable Limit (LDL)	0.72ppm
Repeatability	< ± 2% of measured value
Linearity	< ± 10% of measured value
Response Time t_{92.5}	< 5 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	< ± 0.003ppm / °C (0°C to 20°C) < ± 0.03ppm / °C (20°C to 40°C)
Sensitivity	< ± 0.4% of measured value / °C
Operating Humidity (continuous)	15 – 90% rH
Effect of Humidity Zero	No effect
Sensitivity	< ± 1% of measured value / % rH
Operating Pressure	90 – 110kPa
Effect of Position	No effect in typical application
Long Term Drift Zero	TBA
Sensitivity	< ± 2% of measured value / year
Calibration Gas	Sulphur Dioxide (SO ₂)
Challenge Gas (Bump Test)	Sulphur Dioxide (SO 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 SO ₂)
Carbon Monoxide	CO	300ppm	< 3
Hydrogen Sulphide	H ₂ S	15	0
Nitric Oxide	NO	35	0
Nitrogen Dioxide	NO ₂	5	-5

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