

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
REPEATABILITY	< ± 2% of measured value
LINEARITY	< ± 10% of measured value
RESPONSE TIME T_{62.5}	< 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	< ± 0.003ppm / °C (0°C to 20°C) < ± 0.03ppm / °C (20°C to 40°C) < ± 0.4% of measured value / °C
ZERO SENSITIVITY	
OPERATING HUMIDITY (CONTINUOUS)	15 – 90% rH
EFFECT OF HUMIDITY	No effect
ZERO SENSITIVITY	< ± 1% of measured value / % rH
OPERATING PRESSURE	90 - 110 kPa
EFFECT OF POSITION	No effect in typical application
LONG TERM DRIFT	
ZERO SENSITIVITY	TBA < ± 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 HF)
Carbon Monoxide	CO	300 ppm	< 3
Hydrogen Sulphide	H ₂ S	15	0
Nitric Oxide	NO	35	0
Nitrogen Dioxide	NO ₂	5	-5

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