



Midas® Sensor Cartridge Specifications

Sulfur Hexafluoride (SF₆)

MIDAS-I-SF6

Gas Measured	Sulfur Hexafluoride (SF₆)
Cartridge Part Number	MIDAS-I-SF6 5 year extended warranty
Sensor Technology	NDIR
Measuring Range	SF ₆ 0 – 1000ppm
Minimum Alarm 1 Set Point	120ppm
Lower Detection Limit	25ppm
Linearity	< ± 1% of Measuring range for readings below 25% of range < ± 2% of Measuring range for readings below 50% of range < ± 5% of Measuring range above 50% of range
Repeatability	< ± 2% of measured value
Resolution	2ppm
Response Time t_{62.5}	≤ 10 seconds
Sensor Cartridge Life Expectancy	≥ 60 months under typical application conditions
Operating Temperature	0°C to +40°C (32°F to 104°F)
Effect of Temperature	
Zero	< ± 50ppm / °C
Sensitivity	< ± 5% of measured range / °C
Operating Humidity	10 to 90% RH
Effect of Humidity	
Zero	< ± 50ppm / % RH
Sensitivity	< ± 5% of measuring range / % RH
Operating Pressure	90 – 110kPa
Effect of Position	No effect in typical application
Long Term Drift	
Zero	
Sensitivity	< ± 2% of measured range / year
Calibration Gas	Sulfur Hexafluoride (SF ₆)
Bump Test Gas	Sulfur Hexafluoride (SF ₆)
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.

Find out more

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H_MIDAS-I-SF6_v2 06/22

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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 Measured	Chemical Formula	Concentration Applied(ppm)	Reading (ppm SF ₆)
iso-Propyl alcohol	C ₃ H ₇ OH	3000	<60

Interference differs from cartridge to cartridge and over cell life. It is not recommended to calibrate with cross sensitivity factors. The target gas should be used for calibration.