

Midas[®] SENSOR CARTRIDGE SPECIFICATIONS

Sulfur Hexafluoride (SF6) MIDAS-I-SF6



Gas Measure	Sulfur Hexafluoride (SF6)
Cartridge Part Number	MIDAS-I-SF6 5 years extended warranty
Sensor Technology	NDIR
Measuring range (ppm)	SF6 0-1000 ppm
Resolution	2
Minimum Alarm 1 Set Point (LAL)	110 ppm
Repeatability	< ± 2% of Measuring range
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
Response time (t ₉₀)	≤ 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	< ± 50 ppm (at 0°C to 40°C)
Sensitivity	< ± 5% of measuring range (at 0°C to 40°C)
Operating Humidity	15-90%RH
Effect of Humidity	
Zero	< ± 50 ppm
Sensitivity	< ± 5% of measuring range
Operating Pressure	90 – 110kPa
Effect of Position	No effect in typical application
Long Term Zero Drift	< ± 2% of Measuring range/year
Calibration Gas	SF6 500 ppm
Challenge Gas (Bump Test)	SF6 500 ppm
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 crosssensitive species).

Gas / Vapor	Chemical Formula	Concentration Applied (ppm)	Reading (ppm SF6)
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.

Find out more

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