



Midas® Sensor Cartridge Specifications

Sulfur Hexafluoride (SF₆)

MIDAS-I-SF6

Gas Measured	Sulfur Hexafluoride (SF ₆)
Cartridge Part Number	MIDAS-I-SF6 2 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.

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.

Find out more

www.sps.honeywell.com

Korea Tel: +82 (0)2 6909 0300

Singapore Tel: +65-65803776

Australia Tel: +61-3-94642770

Japan Tel: +81-3-6730-7320

India Tel: +91-124 4752700

United States +1 847 955 8200

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