

MIDAS S2

HEXAFLUORO-1, 3-BUTADIENE (C₄F₆)

Sensor Cartridge Specifications

Selectable gases	Hexafluoro-1,3-butadiene (C ₄ F ₆)
Cartridge Part Number	MIDAS S2-I-C4F 2-year extended warranty
Sensor Technology	Infrared sensor
Measuring Range	C ₄ F ₆ 0 - 100ppm
Default Alarm 1	C ₄ F ₆ 10ppm
Default Alarm 2	C ₄ F ₆ 20ppm
LDL, LAL	C ₄ F ₆ 10ppm
Resolution	C ₄ F ₆ 1ppm
Accuracy	± 20% of measured value
Response Time t _{62:5}	Typical 25 seconds
Sensor Cartridge Life Expectancy (Expiration Period)	5 years
Operating Temperature	15°C to +35°C (32°F to 104°F)
Effect of Temperature Sensitivity	± 20% of measured value
Operating Humidity	0 to 90% non-condensing
Operating Pressure	90 – 110kPa
Calibration Gas	C4F6 50ppm
Warm Up Time	< 10 minutes
Storage Temperature	+5°C to +25°C (+41°F to +77°F)



The sensor data listed is based on the test data with C₄F₆ gas under normal Lab test conditions (20-25 C, 0 - 60%RH, normal atmosphere pressure); observed performance may vary based on the actual monitoring system and the sampling conditions employed.

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CROSS SENSITIVITIES

Each Midas S2 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	Concentration Applied(ppm)	Reading (ppm C ₄ F ₆)
HT80	100% fluid	100
HT110	100% fluid	100
HT135	100% fluid	100
HT200	100% fluid	100
HT270	100% fluid	0
FC-3283	500ppm	0
FC-40	100% fluid	100
Ethylene Glycol	100% fluid	0
Novec 7500	100% fluid	100
Novec 7200	100% fluid	100
Freon 404A (R-404A)	1000ppm	100
R-23	10%vol	0
Freon 95 (R-508B)	10%vol	0
Freon 507 (R-507)	1000ppm	100
iso-Propyl alcohol	1000ppm	0
C ₃ H ₈	10000ppm	0
AsH ₃	1ppm	0
CO	2000ppm	0
Cl ₂	2ppm	0
H ₂	20000ppm	0
HCl	2ppm	0
HF	2ppm	0
H ₂ S	25ppm	0
NO ₂	10ppm	0
NF ₃	10ppm	0
PH ₃	1ppm	0
SO ₂	20ppm	0

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.

For more information

automation.honeywell.com

**Honeywell Process
Measurement and Control**

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Midas S2-I-C4F | Rev 1 | 8/24
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