



Midas[®] SENSOR CARTRIDGE SPECIFICATIONS

Arsine (AsH₃), Germane (GeH₄) MIDAS-S-ASH, MIDAS-E-ASH

Gas Measured	Measured Arsine (AsH ₃)
Cartridge Part Number	MIDAS-S-ASH 1 year standard warranty MIDAS-E-ASH 2 year extended warranty
Sensor Technology	3 electrode electrochemical cell
Measuring Range (ppm)	AsH ₃ 0 – 0.2ppm
Minimum Alarm 1 Set Point	0.025ppm
Repeatability	< ± 2% of measured value
Linearity	< ± 10% of measured value
Response Time t_{92.5}	< 15 seconds
Sensor Cartridge Life Expectancy	≥ 24 months under typical application conditions
Operating Temperature	0°C to + 40°C (32°C to 104°F)
Effect of Temperature	
Zero	< ± 0.004 ppm / °C (0° to 40°C)
Sensitivity	< ± 0.9% of measured value / °C
Operating Humidity (continuous)	10 – 95% rH non-condensing
Effect of Humidity	
Zero	Initial short term drift at abrupt rH change (< 0.001 ppm / % rH)
Sensitivity	< ± 0.2% of measured value / % rH
Operating Pressure	90 – 110kPa
Effect of Position	No effect in typical application
Long Term Drift	
Zero	< 0.05ppm / year
Sensitivity	< 5% of measured value / 6 months
Calibration Gas	Arsine (AsH ₃)
Challenge Gas (Bump Test)	Phosphine (PH ₃)
Warm Up Time	< 20 minutes
Storage Temperature	+5°C to +25°C (+41°F to +77°F)

Calibration	Range	LAL
AsH ₃	0-0.2ppm	0.025ppm
GeH ₄	0-0.8ppm	0.095ppm

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 AsH ₃)
Ammonia	NH ₃	108	<0.1
Carbon Dioxide	CO ₂	5,000	0
Carbon Monoxide	CO	85	0
Chlorine	Cl ₂	TBD	<-0.05
Diborane	B ₂ H ₆	0.1	0.05
Disilane	Si ₂ H ₆	0.27	0.12
Germane	GeH ₄	0.27	0.05
Hydrogen	H ₂	3100	<-0.05
Hydrogen Chloride	HCl	7.9	0
Hydrogen Cyanide	HCN	3.6	0.2
Hydrogen Fluoride	HF	7.2	0
Hydrogen Selenide	H ₂ Se	0.8	0.24
Hydrogen Sulphide	H ₂ S	18.2	0
Iso Propanol	C ₃ H ₇ OH	20,000	0
Methane	CH ₄	18,000	0
Nitrogen Dioxide	NO ₂	10	-2.2
Phosphine	PH ₃	0.1	0.12
Silane	SiH ₄	0.3	0.05
Sulphur Dioxide	SO ₂	17.8	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.

Find out more

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