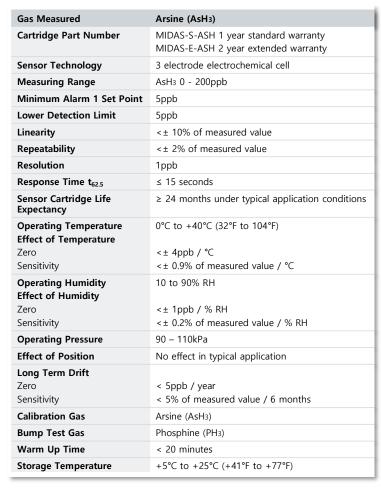


Midas_® Sensor Cartridge Specifications

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



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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Please Note:

While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This publication is not intended to form the basis of a contract.

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Other Detectable Gases

The following additional gases can be detected with this sensor cartridge. Sensor performance and characteristics will be representative of the data as tabulated above. Consult the Technical Manual to set up the Midas® transmitter with the designated identification code for each of the following gas types.

Detectable Gas	Chemical Formula	Measuring Range
Germane	GeH4	0 - 800ppb

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 AsH3)
Ammonia	NH ₃	108	< 0.1
Carbon Dioxide	CO ₂	5000	0
Carbon Monoxide	CO	85	0
Chlorine	Cl ₂	0.85	<-0.05
Diborane	B2H6	0.1	0.05
Disilane	Si ₂ H ₆	0.27	0.12
Germane	GeH4	0.27	0.05
Hydrogen	H2	3100	<-0.05
Hydrogen Chloride	HCI	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 Sulfide	H ₂ S	18.2	0
Iso Propanol	C ₃ H ₂ OH	20000	0
Methane	CH4	18000	0
Nitrogen Dioxide	NO ₂	10	-2.2
Phosphine	PH ₃	0.1	0.12
Silane	SiH4	0.3	0.05
Sulfur 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.