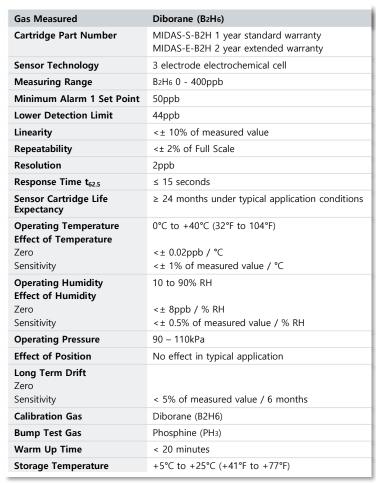


Midas_® Sensor Cartridge Specifications

Diborane (B2H6) MIDAS-E-B2H, MIDAS-S-B2H



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 B2H6)
Ammonia	NH ₃	108	<0.1
Arsine	AsH ₃	0.2	0.1
Carbon Dioxide	CO ₂	5000	0
Carbon Monoxide	CO	85	0
Chlorine	Cl2	0.85	-0.05
Disilane	Si ₂ H ₆	0.27	0.12
Germane	GeH4	0.94	0.1
Hydrogen	H2	3100	0
Hydrogen Chloride	HCI	3.9	0.26
Hydrogen Cyanide	HCN	1.2	0.35
Hydrogen Fluoride	HF	7.2	0
Hydrogen Selenide	H ₂ Se	0.8	0.2
Hydrogen Sulfide	H ₂ S	1.8	0.75
Iso Propanol	C ₃ H ₂ OH	20000	< 0.05
Methane	CH4	18000	0
Nitrogen Dioxide	NO ₂	10.1	-1.5
Phosphine	PH ₃	0.3	0.23
Silane	SiH4	2.0	0.18
Sulfur Dioxide	SO ₂	2	0.3

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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