

Midas[®] SENSOR CARTRIDGE SPECIFICATIONS

Hydrogen Sulphide (H₂S) MIDAS-S-H2S, MIDAS-E-H2S



Gas Measured	Hydrogen Sulphide (H ₂ S)
Cartridge Part Number	MIDAS-S-H2S 1 year standard warranty MIDAS-E-H2S 2 year extended warranty
Sensor Technology	3 electrode electrochemical cell
Measuring Range (ppm)	H ₂ S 0 – 40ppm
Minimum Alarm 1 Set Point	5.0ppm
Repeatability	< ± 3% of measured value
Linearity	< ± 4% of measured value
Response Time t_{92.5}	< 10 seconds
Sensor Cartridge Life Expectancy	≥ 24 months under typical application conditions
Operating Temperature	0°C to +40°C (32°F to 104°F)
Effect of Temperature	< ± 0.0015ppm / °C (0°C to 20°C) < ± 0.004ppm / °C (20°C to 40°C) < ± 0.7% of measured value / °C
Operating Humidity (continuous)	15 – 90% rH
Effect of Humidity	Zero < ± 0.04 ppm / % rH Sensitivity < ± 0.5% of measured value / % rH
Operating Pressure	70 – 110kPa
Effect of Position	No effect in typical application
Long Term Drift	Zero TBA Sensitivity < ± 10% of measured value / year
Calibration Gas	Hydrogen Sulphide (H ₂ S)
Challenge Gas (Bump Test)	Hydrogen Sulphide (H ₂ S)
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 / Vapor	Chemical Formula	Concentration Applied (ppm)	Reading (ppm H ₂ S)
Ammonia	NH ₃	50	0
Carbon Dioxide	CO ₂	5000	0
Carbon Monoxide	CO	50	0
Chlorine	Cl ₂	0.5	0
Ethylene	C ₂ H ₄	100	0
Hydrogen	H ₂	100	0
Nitric Oxide	NO	25	0
Nitrogen Dioxide	NO ₂	3	0
Sulphur Dioxide	SO ₂	2	0

Find out more

www.honeywellanalytics.com

Toll-free: 800.538.0363

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.