Honeywell

Midas® SENSOR CARTRIDGE SPECIFICATIONS

Hydrogen Sulphide (H_2S)
MIDAS-S-H2S, MIDAS-E-H2S

Gas Measured	Hydrogen Sulphide (H_2S)
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_2S 0 – 40ppm
Minimum Alarm 1 Set Point	5.0ppm
Repeatability	< ± 3% of measured value
Linearity	< ± 4% of measured value
Response Time $t_{62.5}$	< 10 seconds
Sensor Cartridge Life Expectancy	≥ 24 months under typical application conditions
Operating Temperature **Effect of Temperature** Zero Sensitivity	0°C to +40°C (32°F to 104°F) < ± 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) **Effect of Humidity** Zero Sensitivity	15 – 90% rH < ± 0.04 ppm / % rH < ± 0.5% of measured value / % rH
Operating Pressure	70 – 110kPa
Effect of Position	No effect in typical application
Long Term Drift Zero Sensitivity	 TBA < ± 10% of measured value / year
Calibration Gas	Hydrogen Sulphide (H_2S)
Challenge Gas (Bump Test)	Hydrogen Sulphide (H_2S)
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_2S)
Ammonia	NH_3	50	0
Carbon Dioxide	CO_2	5000	0
Carbon Monoxide	CO	50	0
Chlorine	Cl_2	0.5	0
Ethylene	C_2H_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

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