MIDAS S2 HYDROGEN SULFIDE (H_2S)

Sensor Cartridge Specifications

Selectable gases	Hydrogen Sulfide (H_2S)
Cartridge Part Number	MIDAS S2-E- H2S 2-year extended warranty
Sensor Technology	Electrochemical sensor
Measuring Range	H_2S 0 – 40ppm
Default Alarm 1	H_2S 5ppm
Default Alarm 2	H_2S 10ppm
LDL, LAL	H_2S 3.6ppm
Resolution	H_2S 0.2ppm
Accuracy	≤ ± 5% of measured value
Response Time $t_{62\cdot5}$	Typical 2 seconds
Sensor Cartridge Life Expectancy (Expiration Period)	24 months under typical application conditions Extendable for 1 year through calibration after 24 months
Operating Temperature Effect of Temperature Sensitivity	0°C to +40°C (32°F to 104°F) ≤ ± 10% of measured value at 20°C
Operating Humidity	15 to 90% non-condensing
Operating Pressure	70 – 110kPa
Calibration Gas	H_2S 20ppm
Warm Up Time	< 20 minutes
Storage Temperature	+5°C to +25°C (+41°F to +77°F)

The sensor data listed is based on the test data with H_2S gas under normal Lab test conditions (20-25 C, 0 - 60%RH, normal atmosphere pressure); observed performance may vary based on the actual monitoring system and the sampling conditions employed.

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CROSS SENSITIVITIES

Each Midas S2 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 H_2S)
Ammonia	NH_3	50	0
Carbon Dioxide	CO_2	10000	0
Carbon Monoxide	CO	50	0
Chlorine	Cl_2	1	0
Ethylene	C_2H_4	100	0
Hydrogen	H_2	500	0
Nitric Oxide	NO	50	0
Nitrogen Dioxide	NO_2	6	0
Sulfur Dioxide	SO_2	4	0
Hydrogen Chloride	HCl	4	0
Silane	SiH_4	10	0
Phosphine	PH_3	0.6	0
Ozone	O_3	0.2	0
Hydrogen Fluoride	HF	6	0
Ethylene Oxide	C_2H_4O	20	0
Hydrogen Cyanide	HCN	10	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.

For more information
automation.honeywell.com

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