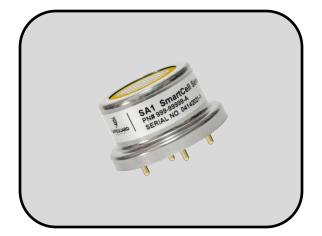


## **Model SA1-H2S**

## Smart Sensor Module



JalCA1 HOC (Hard

## Description

Model SA1 smart sensor modules are designed to detect and monitor various gases in ambient air. The modules consist of a target specific gas detection sensor and a microprocessorbased signal conditioning circuit. Both are housed in a metallic enclosure fitted with gold plated connecting pins. The "Smart Sensor Module" is factory programmed for a specific gas and range of sensitivity. On power up the gas type, measurement range and previous zero and span calibration data points are read by the transmitter facilitating a fully automated startup. The modules can be used with any of Safeguard Analytics gas detection transmitters.

Model SAI-H2S (Hydrogen Suinde)			
Specification*			
Detector Type	Electrochemical		
Detection Method	Diffusion		
Range of Sensitivity**	0-100 PPM		
Response Time	T90 ≤ 30s		
Accuracy	± 2% of reading		
Zero Drift	< 2% per month		
Span Drift	< 2% per month		
Temperature Range	-40°C to +60°C; -40°F to 140°F		
Humidity Range	15% to 90% RH non-condensing		
Pressure Range	1 atm ±.1		
Input Power	~ 3.5 to 5 VDC		
Power Consumption	2.64 milliwatts		
Detector Life Expectancy	>2 years		
Detector Warranty	1 years		

\*Specifications subject to change without notice \*\*Contact Safeguard Analytics for additional ranges

Cross Interference Data							
Interfering Gas	Concentration	Response	Interfering Gas	Concentration	Response		
<i>SO2</i>	20	1	CO	100	3		
NO	50	-1	NO2	10	1		
H2	10000	10	C2H4	100	0		

Caution: Cross interference data is based on small lot sampling and does not claim to be complete. Referenced data may represent testing conducted by third party sensor suppliers as well as testing conducted by Safeguard Analytics. With this particular sensor SO2 is recommended for calibration.



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