



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 microprocessor-based 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 SA1-CH3SH (Methyl Mercaptan)				
Specification*				
Detector Type	Electrochemical			
Detection Method	Diffusion			
Range of Sensitivity**	0-10 PPM			
Response Time	T60 ≤ 30s			
Accuracy	± 2% FS			
Zero Drift	< 2% per month			
Span Drift	< 2% per month			
Temperature Range	-20°C to +50°C; -4°F to 122°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	
CO	100	11	SO2	5	2	
NO2	5	-3.5	NO	25	0	
NH3	25	0	H2	1000	10	
H2S	25	40				

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. Interfering gases should not be used for calibration.



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