



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-HCN (Hydrogen Cyanide)					
Specification*					
Detector Type	Electrochemical				
Detection Method	Diffusion				
Range of Sensitivity**	0-30 PPM				
Response Time	T90 ≤ 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	2	SO2	20	38		
NO	35	0	NO2	5	-12		
C2H4	100	0	H2S	15	25		
H2	100	2					

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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