



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

Specifications* Model SA1-B2H6(Diobrane)		
Detector Type	Electrochemical	
Detection Method	Diffusion	
Range of Sensitivity	0-1.00 ppm	
Response Time	T90 ≤ 30s	
Accuracy	± 2 % FS	
Zero Drift	< 5 % FS per year (In clean air)	
Span Drift	< 5 % FS per year (In clean air)	
Temperature Range	-20°C to +40°C; -14°F to 122°F	
Humidity Range	15% to 90% RH non-condensing	
Temperature Range	1 atm ±.1	
Input Power	~ 3.5 to 5 VDC	
Power Consumption	< 2.5 milliwatts	
Sensor Life Expectancy	2 years	
Detector Warranty	1 years	

^{*} Specifications subject to change without notice

Response to Other Gases						
Gas Type	Concentration	Response	Gas Type	Concentration	Response	
Ammonia	100 ppm	0 ppm	Carbon Dioxide	5000 ppm	0 ppm	
Carbon Monoxide	100 ppm	0 ppm	Chlorine	1 ppm	5 ppm	
Hydrogen	3000 ppm	.3 ppm	Hydrogen Chloride	10 ppm	0 ppm	
Hydrogen Fluoride	7 ppm	0 ppm	Hydrogen Sulfide	20 ppm	2 ppm	
Nitrogen Dioxide	8 ppm	-1.6 ppm	Sulfur Dioxide	4 ppm	.2 ppm	

Contact Safeguard Analytics for additional gas response factors



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