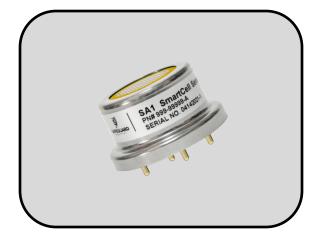


Model SA1-H2O2

Smart Sensor Module



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 SA1-H202 (Hydrogen Peroxide)	
Specification*	
Detector Type	Electrochemical
Detection Method	Diffusion
Range of Sensitivity**	0-100 PPM
Response Time	T90 ≤ 60s
Accuracy	$\pm \sim 50\%$ of reading
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	
<i>SO2</i>	20	20 ±12				

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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