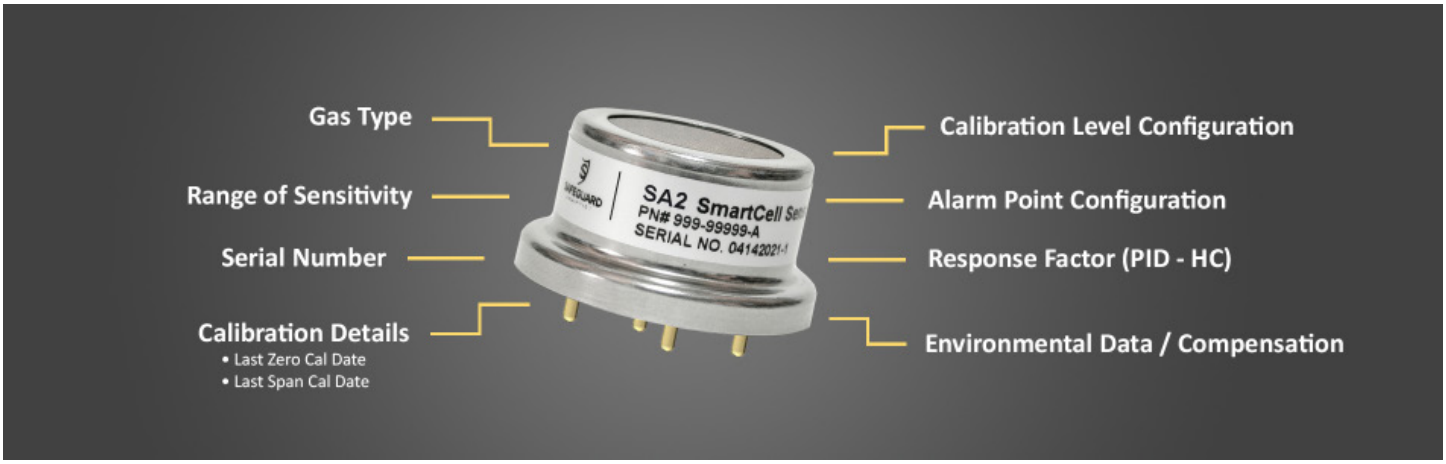
Model SA2-VOC **(11.7eV)** (Volatile Organic Compounds) Smart Sensor Modules



Description

Model SA2-VOC-11.7 smart sensor modules are designed to detect and monitor volatile organic compounds in ambient air with an ionization of 11.7eV or below. The modules consist of a photo ionization gas detection sensor and a micro-processor-based signal conditioning circuit. The signal conditioning circuits includes embedded temperature compensation and advanced detection analytics. Both are housed in a metallic enclosure fitted with gold plated connecting pins. The "Smart Sensor Module" is factory programmed for a specific range of sensitivity. On power-up, the transmitter reads the gas type, measurement range, and the most recent zero and span calibration data, enabling fully automated startup. With any Safeguard Analytics gas detection transmitter, calibration can be performed on-site or remotely, allowing units to be delivered to the installation location pre-calibrated and ready for operation.

Specifications [1]

Sensor Technology	Photo Ionization Detector (11.7 eV)	**Input Voltage (Direct)**	3.3 VDC
Detection Method	Diffusion	**Power Consumption**	100 milliwatts
Sensitivity Options	100 ppm	**Signal Output**	I²C Protocol
Response Time	T90 less than 10s	**Temperature Range**	-40°C to +65°C
Accuracy	± 2% of full scale	**Humidity Range**	0% to 99% non-condensing
Zero Baseline Shift	< 1% of full scale	**Pressure Range**	1 atmosphere ± .1 atm
Span Drift	< 2% signal loss per month (in clean air)	**Warranty**	300-500 hours continuous illumination

[1] Specifications subject to change without notice.

**Power consumption is sensor dependent*

Order Guide

Model SA2-VOC-11.7-100	0-100 ppm (100 ppb MDL)

Safeguard Analytics follows a continuous improvement policy, ensuring ongoing enhancements to its products and manufacturing processes. As a result, specifications are subject to change without prior notice. For the most up-to-date product details, please visit our website at www.safeguardanalytics.com or contact us via email at info@safeguardanalytics.com.