

Model SA2-VOC (10.6eV) (Volatile Organic Compounds) Smart Sensor Modules



Description

Model SA2-VOC smart sensor modules are designed to detect and monitor volatile organic compounds in ambient air with an ionization of 10.6eV 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 (10.6 eV)	Input Voltage (Direct)	3.3 VDC
Detection Method	Diffusion	Power Consumption	100 milliwatts
Sensitivity Options	2 ppm to 10,000 ppm	Signal Output	I ² C Protocol
Response Time	T90 less than 10s	Temperature Range	-20°C to +60°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	6000 hours run time

¹Specifications subject to change without notice.

*Power consumption is sensor dependent

Order Guide

Model SA2-VOC-002	0-2.00 ppm (20 ppb MDL)	Model SA2-VOC-200	0-200 ppm (2 ppm MDL)
Model SA2-VOC-005	0-5.00 ppm (50 ppb MDL)	Model SA2-VOC-500	0-500 ppm (5 ppm MDL)
Model SA2-VOC-010	0-10.0 ppm (0.1 ppm MDL)	Model SA2-VOC-01K	0-1,000 ppm (10 ppm MDL)
Model SA2-VOC-020	0-20.0 ppm (0.2 ppm MDL)	Model SA2-VOC-05K	0-5,000 ppm (50 ppm MDL)
Model SA2-VOC-050	0-50.0 ppm (0.5 ppm MDL)	Model SA2-VOC-10K	0-10,000 ppm (100 ppm MDL)