

MODEL SA2-VOC-10.6 (VOLATILE ORGANIC COMPOUNDS (10.6 EV))

SMART SENSOR MODULES

Model SA2-VOC-10.6 smart sensor modules are designed to detect and monitor volatile organic compounds in ambient air with an ionization potential of 10.6 eV or below. The modules consist of a photoionization gas detection sensor and a micro-processor-based signal conditioning circuit. The signal conditioning circuit includes embedded temperature compensation and advanced detection analytics. Both are housed in a metallic enclosure fitted with gold plated connecting pins.

-  Gas Type
-  Range of Sensitivity
-  Serial Number
-  Calibration Details
 - last zero cal date
 - last span cal date



-  Calibration Level Configuration
-  Alarm Point Configuration
-  Environmental Data / Compensation



"The Smart Sensor Module" is factory programmed for a specific range of sensitivity. On power up, gas type, measurement range, and previous zero and span calibration data points are read by the transmitter, facilitating a fully automated startup. When used with any Safeguard Analytics gas detection transmitter, calibration may be performed on site or remotely, and the module transported to the point of installation pre-calibrated and ready for operation.

SPECIFICATIONS¹

Sensor Technology	Photo Ionization Detector (10.6 eV)
Detection Method	Diffusion
Sensitivity Options	0-2.00 ppm to 0-10,000 ppm
Response Time	T90 less than 10s
Accuracy	±2% of full scale
Zero Baseline Shift	< 1% of full scale
Span Drift	< 2% signal loss per month (in clean air)

Input Voltage (Direct)	3.3 VDC
Power Consumption	100 milliwatts
Signal Output	I2C Protocol
Temperature Range	-20 °C to +60 °C
Humidity Range	0% to 99% non-condensing
Pressure Range	1 atmosphere ± 0.1 atm
Warranty	6,000 hours run time

¹ Specifications subject to change without notice.

² Power consumption is sensor dependent.

ORDER GUIDE

Model SA2-VOC-002	0-2.00 ppm (20 ppb MDL)
Model SA2-VOC-005	0-5.00 ppm (50 ppb MDL)

Model SA2-VOC-200	0-200 ppm (2 ppm MDL)
Model SA2-VOC-500	0-500 ppm (5 ppm MDL)

Model SA2-VOC-010	0-10.0 ppm (0.1 ppm MDL)
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Model SA2-VOC-020	0-20.0 ppm (0.2 ppm MDL)
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Model SA2-VOC-050	0-50.0 ppm (0.5 ppm MDL)
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Model SA2-VOC-01K	0-1,000 ppm (10 ppm MDL)
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Model SA2-VOC-05K	0-5,000 ppm (50 ppm MDL)
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Model SA2-VOC-10K	0-10,000 ppm (100 ppm MDL)
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