

MODEL SA2-C2H3Cl (VINYL CHLORIDE)

SMART SENSOR MODULES

Model SA2-C2H3Cl smart sensor modules are designed to detect and monitor vinyl chloride gas in ambient air. The modules consist of an electrochemical 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. Once installed, calibration is recommended to align to specific applications.



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	Electrochemical
Detection Method	Diffusion
Sensitivity Options	0-20.0 ppm to 0-50 ppm
Response Time	T90 less than 120s
Accuracy	±2% of full scale
Zero Baseline Shift	< 1% of full scale (-30 °C to +50 °C)
Span Drift	< 5% signal loss per year

Input Voltage (Direct)	3.3 VDC
Power Consumption	10 milliwatts
Signal Output	I2C Protocol
Temperature Range	-20 °C to +50 °C
Humidity Range	15% to 90% non-condensing
Pressure Range	1 atmosphere ± 0.1 atm
Warranty	2 Years

¹ Specifications subject to change without notice.

² Power consumption is sensor dependent.

ORDER GUIDE

Model SA2-C2H3Cl-020

0-20.0 ppm (0.2 ppm MDL)

Model SA2-C2H3Cl-050

0-50 ppm (0.5 ppm MDL)