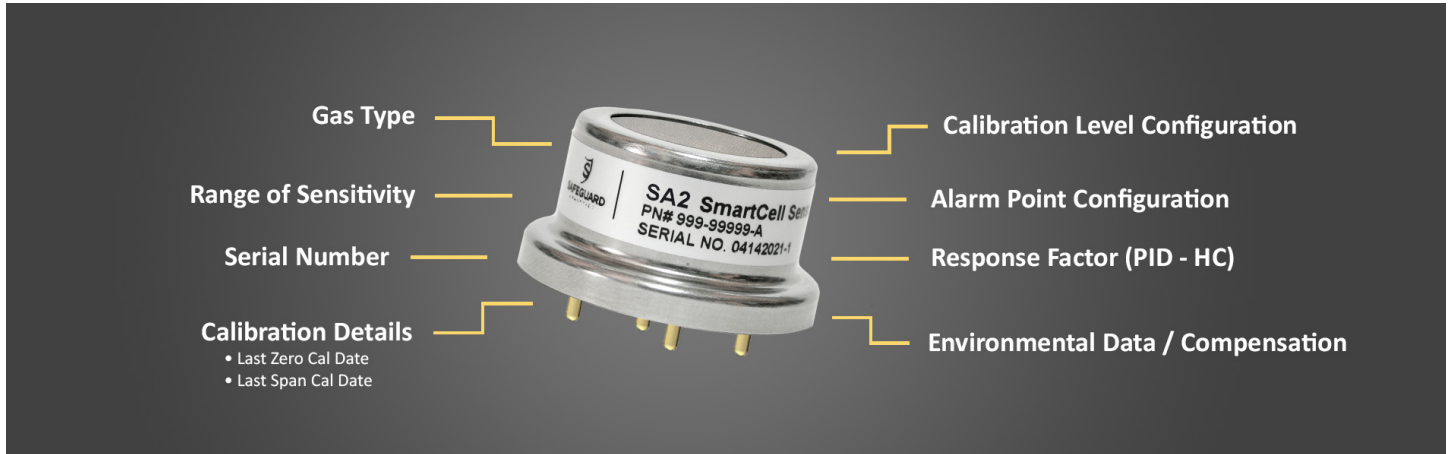


Model SA2-CH4 (Methane) Smart Sensor Modules



Description

Model SA2-CH4 smart sensor modules are designed to detect and monitor methane in ambient air. The modules consist of a non-dispersive infrared 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 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 of Safeguard Analytics gas detection transmitters calibration may be performed on site or remotely and transported to the point of installation pre-calibrated and ready for operation.

Specifications ¹

Sensor Technology	Non-Dispersive Infrared	Input Voltage (Direct)	3 to 5.0 VDC
Detection Method	Diffusion	Power Consumption	< 50 milliwatts
Sensitivity Options	5% to 100% Volume	Signal Output	I ² C Protocol
Response Time	T50 < 10s T90 < 30s	Temperature Range	-40°C to +70°C
Accuracy	± 2% of full scale	Humidity Range	0% to 90% non-condensing
Zero Baseline Shift	< 1% of full scale	Pressure Range	1 atmosphere ± .1 atm
Span Drift	< 2% signal loss per month	Warranty	5 Years

¹Specifications subject to change without notice.

*Power consumption is sensor dependent

Order Guide

Model SA2-CH4-LEL	0-100 % LEL (2 % LEL MDL)	Model SA2-CH4-050v	0-50 % volume (1 % vol MDL)
Model SA2-CH4-010v	0-10.0 % volume (0.2 % vol MDL)	Model SA2-CH4-100v	0-100 % volume (2 % vol MDL)