

MODEL SA2-CPS (NON-SELECTIVE COMBUSTIBLE GASES)

SMART SENSOR MODULES

Model SA2-CPS smart sensor modules are designed to detect and monitor combustible gases in ambient air. The modules consist of a target gas specific pair of catalytic pellistors and a micro-processor-based signal conditioning circuit. The signal conditioning circuit includes 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
-  Response Factor
-  Alarm Point Configuration



"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	Catalytic Pellistor
Detection Method	Diffusion
Sensitivity Options	0 to 100% LEL
Response Time	T90 less than 30s
Accuracy	±2% of full scale
Zero Baseline Shift	< 3% per year
Span Drift	< 3% per year

Input Voltage (Direct)	3.3 VDC
Power Consumption	< 500 milliwatts
Signal Output	I2C Protocol
Temperature Range	-40 °C to +60 °C
Humidity Range	0% to 90% non-condensing
Pressure Range	1 atmosphere ± 0.1 atm
Warranty	2 Years

¹ Specifications subject to change without notice.

ORDER GUIDE

Model SA2-CPS-LEL	0-100 % LEL (2 % LEL MDL)
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