

MODEL SA2-NO2 (NITROGEN DIOXIDE)

SMART SENSOR MODULES

Model SA2-NO2 smart sensor modules are designed to detect and monitor nitrogen dioxide 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.

 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	0-1.00 ppm to 0-500 ppm
Response Time	T90 less than 90s
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 to 3.6 VDC
Power Consumption	10 milliwatts
Signal Output	I2C Protocol
Temperature Range	-40 °C to +55 °C
Humidity Range	15% to 95% 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-NO2-001	0-1.00 ppm (10 ppb MDL)
Model SA2-NO2-010	0-10.0 ppm (0.1 ppm MDL)
Model SA2-NO2-050	0-50.0 ppm (0.5 ppm MDL)

Model SA2-NO2-100	0-100 ppm (1 ppm MDL)
Model SA2-NO2-200	0-200 ppm (2 ppm MDL)
Model SA2-NO2-500	0-500 ppm (5 ppm MDL)