

Model SA2 Smart Sensor Modules

Toxics - Oxygen Deficiency - Combustibles - VOCs - Refrigerants

Model SA2 smart gas sensor modules consist of a gas detection sensor and a micro-processor-based signal conditioning circuit featuring advanced detector analytics. The “Smart Sensor Module” is available in various technologies that cover a wide range of safety and environmental monitoring applications. Each module is factory programmed for a specific gas type and range of sensitivity. They are housed in an RFI/EMI resistant metallic enclosure and are fitted with large surface area gold plated pins. Signal output is a uniform I2C register map for all available sensor technologies enabling OEM standardization and easy integration to meet a wide range of gas sensing applications.

Standard Features:

- Power input 3.3 VDC
- Power consumption 7mW to 1.2W (sensor dependent)
- Low power consumption for battery and solar applications
- Standard I2C slave output for all technologies
- Metallic housing for RFI/EMI protection
- Small form factor (40mm x 40mm x 22mm)



Key Data Points

- Gas Type
- Range of Sensitivity
- Calibration Date
 - Last Zero Cal
 - Last Span Cal
- Calibration Level Configuration
- Alarm Point Configuration
- Response Factor (PID- HC)
- Environmental / Compensation
- Serial Number

Typical Applications:

- Environmental and Safety Monitoring
- Water and Wastewater Treatment Plants
- Chemical and Petrochemical Plants
- Construction and Reclamation Sites
- Oil & Gas Production Sites
- Mining Industry
- Agriculture
- Landfills

Standard Gases:

- | | |
|------------------------|----------------------------------|
| Br2 (Bromine) | HCL (Hydrogen Chloride) |
| C2H4 (Ethylene) | HCN (Hydrogen Cyanide) |
| C2H4O (Ethylene Oxide) | LEL (Combustible Gases) |
| C2H6O (Alcohol) | NH3 (Ammonia) |
| C3H8 (Propane) | NO (Nitric Oxide) |
| CH4 (Methane) | NO2 (Nitrogen Dioxide) |
| CH2O (Formaldehyde) | O2 (Oxygen) |
| CH3OH (Methanol) | O3 (Ozone) |
| CL2 (Chlorine) | PH3 (Phosphine) |
| CO (Carbon Monoxide) | R32 (Refrigerant) |
| CO2 (Carbon Dioxide) | SO2 (Sulfur Dioxide) |
| H2 (Hydrogen) | VOC (Volatile Organic Compounds) |
| H2S (Hydrogen Sulfide) | |

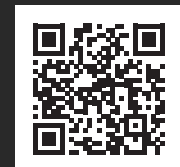
Contact Safeguard Analytics for additional gases configurations.

Safeguard Analytics

4200 Research Forest Dr, Ste 250
 The Woodlands, TX 77381 USA
 Phone: (936) 342-2300

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Questions about SA2 Smart Sensors?



www.safeguardanalytics.com