

Model SA-XDS

Diffusion Gas Detection System



Description

Model SA-XDS diffusion detection systems is designed for monitoring a wide range of gases in ambient air. Three system configurations are available, 2, 4, and 6 Sensor configurations. The output signal is Modbus RTU. Gas type and range of sensitivity are determined by installing user-specified sensors and . Equipped with an intuitive full-script HMI featuring a color LCD, the system controller automatically configures the installed Smart Sensors. Pertinent data for each sensor includes serial number, gas type, sensitivity range, most recent zero and span calibration data points, and last calibration date. User interface is accomplished using a programming magnet and front-panel push-button switches. The system is housed in a rugged NEMA 4X weatherproof enclosure, ensuring durability and protection against environmental elements.

Specifications¹

System		Electrical	
Detector Type²	Smart Sensor Module	Input Voltage (Direct)	10 to 30 VDC
Detection Method	Diffusion	<i>(Optional AC Line Power)</i>	90 to 240 VAC
Indicator	Color LCD	Power Consumption	2.5 - 10 watts (sensor dependent)
User Interface	Magnet and front panel switches	Serial Output	RS-485 MODBUS RTU
		<i>(Optional Alarm Relays)</i>	2 form C 5A Contacts
Mechanical		Area Classification	
Dimensions	10(W) x 10in(H) x 6in(D) 203mm(W) x 254mm(H) x 101mm(D)		Non-Hazardous Locations NEMA 4X Weatherproof
Warranty		Environmental	
System Warranty	2 Years	Temperature Range	-40°C to +50°C *
Detector Warranty	Sensor technology dependent	Humidity Range	0-95% non-condensing

*Temperature requirements are sensor dependent

¹Specifications subject to change without notice.

²Visit www.safeguardanalytics.com for a full list of gas sensor options.