

Model SA-220

Diffusion Gas Detector



Description

Model SA-220 is an advanced single or dual gas sensor transmitter designed for use with Safeguard Analytics' complete range of Model SA2 "smart sensor modules".

A diffusion-based detector, with the gas type and sensitivity range determined by installing an application-specific Model SA2 Smart Sensor module. Equipped with a full color digital display, at startup, the detector automatically identifies the gas type, sensitivity range, and serial number. The device self-guides the user in the calibration process for zero and span calibration, providing a record of last calibration date. This device also has configurable sleep modes, GPS entry details and event logging.

Optional features include relay outputs, intrinsically safe barrier for hazardous environments and choice of housing between ABS plastic for non-hazardous environments and aluminum or stainless steel for hazardous environments. The SA-220 can be used standalone, auto-configured to our SCX Controller or any other device that receives MODBUS or 4-20mA inputs.

Specifications¹

System		Electrical	
Detector Type²	SA2 Smart Sensor Module	Input Voltage (Direct)	10 to 30 VDC
Detection Method	Diffusion	Power Consumption	0.75- 2W*
Indicator	Color LCD	Serial Output	RS-485 MODBUS RTU
User Interface	Magnet, TFT Display, OpCheck® Android App, or Serial interface	Analog Output	4-20mA DC (2 channels)
Mechanical		Relay Output	4 Channel (Alarm 1-3 & Fault)
Mounting	Bracket or Pole, 2-3/4in NPT Ports	Area Classification	
Dimensions	9.17(233mm) H x 5.2in(132mm) W x 5.06in(129mm) D	Engineered to comply with Class I, Div 1 standards, certification pending (Class I Div 1 Groups BCD / Class I Zone I Group IIB +H2)	
Warranty		Environmental	
System Warranty	2 Years	Temperature Range	-40°C to +70°C
Detector Warranty	Sensor technology dependent	Humidity Range	0-99% non-condensing

¹Specifications subject to change without notice.

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

*Power consumption is number of sensors installed and sensor technology selection dependent.