

## Model SA-220 Diffusion Gas Detector

Full color TFT display with bright green, yellow, red, blue status LEDs

Instrument status indicators illuminate bluetooth, alarm, and fault status



Detailed menu for easy setup, configuration and event logging

Bluetooth connect to Opcheck® App for setup and calibration

Enclosure options include ABS plastic for non-hazardous and aluminum or stainless steel for hazardous locations

## 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.

## Specifications<sup>1</sup>

System		Electrical	
Detector Type <sup>2</sup>	SA2 Smart Sensor Module	Input Voltage (Direct)	10 to 30 VDC
<b>Detection Method</b>	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	Analog Output	4-20mA DC (2 channels)
	interface	Relay Output	4 Channel (Alarm 1-3 & Fault)
Mechanical		Area Classification	
Mounting	Bracket or Pole, 2-3/4in NPT Ports	Engineered to comply with Class I,	Div 1 standards, certification pending
Dimensions	9.17(233mm) H x 5.2in(132mm) W x 5.06in(129mm) D	(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
<b>Detector Warranty</b>	Sensor technology dependent	Humidity Range	0-99% non-condensing
<sup>1</sup> Specifications subject to change without notice.		*Power consumption is number of sensors installed and sensor technology selection dependent.	

Safeguard Analytics continuously works to improve its products and reserves the right to change the technical data or specifications without notice. For the most up to date product characteristics check on the website

<sup>2</sup> Visit www.safeguardanalytics.com for a full list of gas sensor options

www.safeguardanalytics.com or e-mail to info@safeguardanalytics.com

