

MODEL SA-220

FIXED GAS DETECTION

The SA-220 is an advanced single or dual gas detection transmitter designed for use with the full range of SA2 smart sensor modules. The diffusion-based detector identifies gas type, sensitivity range, and serial number at startup and guides the user through zero and span calibration with a full-color display. It supports configurable sleep modes, GPS entry details, event logging, optional relays, intrinsically safe barriers, and a choice of ABS plastic, aluminum, or stainless steel housings.



SPECIFICATIONS¹

SYSTEM

Detector Type	Model SA2 Smart Sensor Module
Detection Method	Diffusion
User Interface	OpCheck® Android/iOS app or magnetic interface

MECHANICAL

Mounting	Bracket or pole; 2-3/4 in NPT ports
Dimensions	9.17 in (233 mm) H x 5.2 in (132 mm) W x 5.06 in (129 mm) D

ELECTRICAL

Input Voltage	10-30 VDC with connector board
Power Consumption	0.75 W to 2 W (sensor dependent)

AREA CLASSIFICATION

Rating	Engineered to comply with Class I, Div 1 standards (certification in progress)
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ENVIRONMENTAL

Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Humidity	0-99% non-condensing

WARRANTY

Transmitter	2 years
Smart Sensor	Sensor technology dependent

Specifications subject to change without notice.

FEATURES

Universal Transmitter

- Full-color digital display
- Non-intrusive magnetic interface
- Plug-and-play SA2 smart sensor modules across a wide gas catalog
- Auto-configuration with the SCX control system
- Event logging
- Bluetooth connect to OpCheck® application for Android handhelds
- Optional relay output: 3 alarm levels and fault

Integration

- Serial Modbus RTU (single address)
- Analog 4-20 mA DC per active channel
- Power input: 10-30 VDC
- Power consumption: 0.75 W to 2 W (smart sensor dependent)

Environmental & Enclosure

- Temperature range: -40 °C to +60 °C (-40 °F to +140 °F)
- Humidity: 0-99% RH non-condensing
- Ingress protection: NEMA 4X, IP66

Area Classification

- Hazardous location design (global certifications pending)
- Designed to Class I, Div 1, Groups A, B, C, D standards (certification in progress)
- Designed to Class I, Zone 1, Group IIC standards (certification in progress)

APPLICATIONS

- Fixed-point monitoring across industrial facilities
- Standalone installations or networked to SCX
- Hazardous and harsh environments
- Integration with Modbus or 4-20 mA hosts and PLCs