

MODEL SA-220NH

NON-HAZARDOUS GAS DETECTOR

The SA-220NH is a fixed gas detector built for non-hazardous ambient-air applications. It pairs a full-color TFT display with plug-and-play SA2 smart sensor modules, so the detector automatically reads gas type, sensitivity range, and serial number at startup. An ABS housing, magnetic interface, and optional Bluetooth configuration through the OpCheck app make it a practical choice for commercial and light industrial installations where hazardous-area certification is not required.



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
Housing	ABS enclosure for non-hazardous locations
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)
Outputs	Modbus & 4-20 mA
Optional Relays	5 V, 2 A dry contact
Sensor Interface	Intrinsically safe sensor interface

AREA CLASSIFICATION

Installation	Non-hazardous locations
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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
- 10 Event Logs
- Bluetooth connect to OpCheck® application for Android and iOS handhelds
- Optional relay output: 3 alarm levels and fault - 5 V, 2 A dry contact

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
- ABS housing for non-hazardous locations

Area Classification

- Non-hazardous locations
- Suitable for commercial and light industrial ambient-air monitoring

APPLICATIONS

- Non-hazardous fixed point monitoring in industrial facilities
- Standalone installations or networked to SCX
- Commercial and light industrial environments
- Integration with Modbus & 4-20 mA hosts and PLCs