

# HY-ALERTA® 5320

## INTRINSICALLY SAFE (IS) HYDROGEN AREA MONITOR



### Rapid Response Hydrogen Leak Detection Improves Safety

The HY-ALERTA® 5320 Hydrogen Area Monitor integrates proprietary technology to enhance safety in environments vulnerable to hydrogen leaks. Featuring H2scan's self-calibrating, patented solid-state technology, the HY-ALERTA 5320 ensures reliable and rapid detection of hydrogen-specific leaks. Its fast response time promptly alerts facility managers to the presence of hydrogen, enabling immediate corrective action.

#### Key Features

- Effortless Installation:** Compact form factor and versatile mounting options (surface, wall, ceiling) facilitate easy installation in facilities producing, storing, or utilizing hydrogen
- Broad Application:** Ideal for hydrogen-based process lines, gas blending operations, energy storage, fuel cell/electrolyzer facilities, data centers, and battery rooms, enabling real-time, continuous hydrogen monitoring
- Intrinsically Safe:** Designed for safety with an intrinsically safe product and a ten-year sensor warranty

#### Benefits

- Maintenance-Free Operation:** H2scan's hydrogen sensing technology eliminates frequent calibrations and ongoing maintenance, providing flexibility in monitor placement without accessibility concerns
- Enhanced Safety:** Ensures safety in potentially explosive environments with the industry's fastest and most reliable hydrogen-specific monitor

#### Upgrade Your Hydrogen Safety Program with a Complete Solution

Long-term sensor reliability maintenance-free operation:

The hydrogen sensing element ensures reliability without cross-sensitivity to other combustible gases

**Safe and effective, ideal for hazardous environments:** This product is suitable for hydrogen-based process lines, fuel cell/ electrolyzer facilities, battery rooms, and energy storage, providing rapid leak detection

**Cost-effective because of low cost of ownership:**  
Eliminates periodic calibration, maintenance, and replacement costs

**Maintenance-free due to patented solid-state sensor technology:**  
Includes a 10-year sensor warranty with no calibration required, allowing flexible placement in critical areas without maintenance concerns

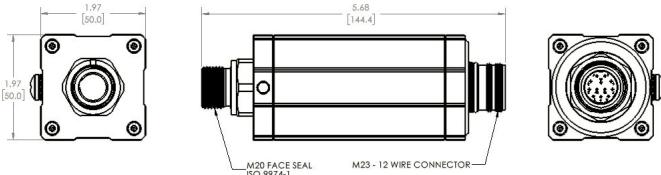
**Environmentally friendly as there are no consumables required:** Supports environmentally sustainable operations



- **Enhance Worker Safety and Protect Capital Equipment:** Deploy reliable, rapid, and cost-effective hydrogen sensing technology for hazardous applications across industries involved in the hydrogen economy
- **No False Alarms:** Eliminates cross-sensitivity to other gases
- **Low Total Cost of Ownership:**
  - Zero manual calibration requirements
  - Zero maintenance
  - Zero consumables like calibration gases
  - Zero sensor replacements
- **100% Continuous Monitoring**
- **Sensor-Linking Capability**
- **Versatile Interface Standards and Alarm Outputs**
- **Ideal for Space-Constrained Areas:** Effective leak detection in compact environments

This technology ensures efficient operations and safety enhancements crucial for industries embracing hydrogen based technologies.

#### HY-ALERTA 5320 Dimensions



#### Product Specifications

##### Operating Conditions

Operating Pressure (Hazardous Location)	0.95 - 1.1 ATM Absolute
Process Gas Temperature	See Product Selection Table Below
Operating Humidity	< 95% RH (non-condensing)

##### Input/Output Signal

Digital Communication	Modbus over RS-485, three-wire, half-duplex
Relays	2 digital optocouplers
Analog	4-20 mA

##### Power

Input Voltage	10 to 15.6 VDC
Input Power	2 W

##### Physical

Dimensions	144.4 x 50 x 50 mm (5.68 x 1.97 x 1.97 in)
Weight	748.43 g (1.65 lbs)
Electrical Fitting	Twelve-Pin M23
Sensor Fitting	M20 face seal, ISO 9974-1

##### Environmental

Ingress Protection	IP66
Operating Temperature	-40°C to 70°C (-40°F to 158°F)
Storage Temperature	-40°C to 105°C (-40°F to 221°F)

##### Certifications

US/CAN	Class I, Div. 1 & Class I, Div. 2, Groups B,C, and D
ATEX	Ex II 1G + H <sub>2</sub> Ga
IECEx	Ex ia (H <sub>2</sub> ) Ga

Hazardous location electrical barriers must be purchased separately

\* Note: Analyzers are factory calibrated at 1 ATM Absolute

#### Measurement Specifications

Model	Hydrogen Range		T90 Response Time (sec)	Accuracy	Drift/Week	Repeatability
	Low	High				
5320	0.4%	5%	<60	0.3%	None	0.3%