

HY-ALERTA® 5320

INTRINSICALLY
SAFE 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 with 10 years 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.

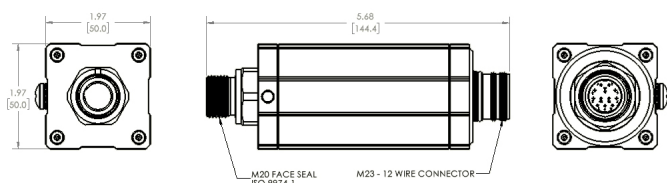
Environmentally friendly as there are no consumables required: Supports environmentally sustainable operations.



- **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 with up to 10-year operational lifespan
- **100% Continuous Monitoring**
- **Daisy-Chaining 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

Recommended Pressure	1-2 ATM Absolute
Maximum Pressure	10 ATM Absolute
Operating Temperature	-10 to 80° C
Flow Rate	0.1 to 10 SLPM (1/4" TUBE)
Operating Humidity	< 95% RH (non-condensing)
Calibration	None (auto-calibrating)

Output Signal

Digital	MODBUS over RS-485, three-wire, half-duplex
Analog	4-20 mA

Power

Input Voltage	9 to 15.6 VDC
Input Power	2 Watts

Physical

Dimensions	144.4 mm x 50 mm x 50 mm [5.68 in x 1.97 in x 1.97 in]
Weight	748.43 grams [1.65 lbs]
Electrical Fitting	TWELVE-PIN, M23
Sensor Fitting	M20 FACE SEAL, ISO 9974-1

Environmental

Ingress Protection	IP66
Operating Temperature	-20 to 80° C
Storage Temperature	-20 to 105° C

Certifications

UL and Hazardous Location (coming soon)

Product Selection

MODEL	Hydrogen range low	Hydrogen range high	CO limit	H2S Limit	T90 Response Time (sec)	Accuracy Low to 10 H2	Accuracy 10 to 100% H2	Drift/Week	Repeatability Low to 10% H2	Repeatability 10 to 100% H2	Linearity Low to 10% H2	Linearity 10 to 100% H2
5320	0.4%	5%	0	0	<60	0.3%	N/A	None	0.3%	N/A	0.3%	N/A

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