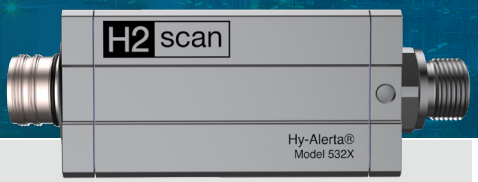
# HY-ALERTA® 5320

## INTRINSICALLY SAFE (IS) HYDROGEN AREA MONITOR

H2scan®
Advanced Hydrogen Sensing




## 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

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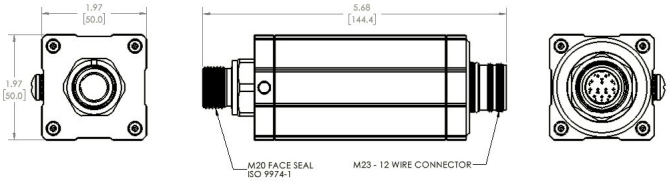
INTRINSICALLY SAFE HYDROGEN AREA MONITOR

- **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**
- **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 | -20°C to 70°C (-4°F to 158°F) |
| Storage Temperature | -20°C to 105°C (-4°F to 221°F) |
| **Certifications** | |
| US/CAN | Class I, Div. 1 & Class I, Div. 2, Groups B,C, and D |
| ATEX | Ex II 1G + $H_2$Ga |
| IECEx | Ex ia ($H_2$) 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% |

Specifications subject to change without notice