

# SELF-CALIBRATING HYDROGEN DETECTION

## FOR ENERGY STORAGE AND STATIONARY BATTERIES

### Battery Hydrogen Sensing Solutions

Durable and reliable hydrogen sensing is crucial for safety in standby power and energy storage batteries as it detects potentially explosive gas buildup. Early detection allows ventilation and other safety measures to be initiated, preventing catastrophic failures thereby protecting personnel and assets.

			
	Lithium Battery Rooms/Containers	Lead-Acid & Ni-Cad Rooms/Containers	All Battery Rooms/Containers
Model	HY-ALERTA® 5020 General Location	H-ALERTA 5021 General Location	HY-ALERTA 5320 Intrinsically Safe






Model	H <sub>2</sub> Measurement Range	Operating Temperature	Response Time	Intervals
5020	0.1% - 0.5%	-10°C to 60°C (14°F to 140°F)	T90 <sup>1</sup> @ <60 seconds	Modbus
5021	0.1% - 5%	-10°C to 60°C (14°F to 140°F)	T90 @ <5 minutes	Modbus
5320	0.1% - 5%	-10°C to 60°C (14°F to 140°F)	T90 @ <60 seconds	Modbus, 4-20 mA Digital Contact

1. The time taken for the sensor to record 90% of the full scale H<sub>2</sub> concentration

### Advantages

- Self-calibrating - Maintenance free
- Modbus equipped - Display is optional
- Run fans only when hydrogen is present
- 15+ year service life

### Hydrogen Sensor Accessories

				
<b>HYVIEW® Modbus Display</b> Displays Percentage H <sub>2</sub> or ppm	<b>BRO-1</b> Modbus to Dry Contact Converter	<b>HYAO-1</b> Modbus to 4-20 mA Converter	<b>Sensor Mount &amp; Cap</b> Series 5000	<b>Connectivity Options</b> Cables & Connectors
Know your H <sub>2</sub> risk. Check the Hydrogen level before entering battery rooms	Potential-free contacts trigger 1% and 2% H <sub>2</sub> gas alarms for four sensors	Converts Modbus sensor data to a standard 4-20 mA current signal	Versatile mounting solution for 5000 series sensors and protective contaminant shield caps	Modular cabling system for connecting and daisy-chaining up to four sensors

Specifications subject to change without notice. 03.25. © 2022-2025 H2scan