

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.



Model	HY-ALERTA® 5020 General Location	HY-ALERTA 5021 General Location	HY-ALERTA 5320 Intrinsically Safe	HY-GUARD™ General Location
Model	H ₂ Measurement Range	Operating Temperature	Response Time	Intervals
5020	0.1% - 0.5%	-10°C to 60°C (14°F to 140°F)	T90 ¹ at <60 seconds	Modbus
5021	0.1% - 5%	-10°C to 60°C (14°F to 140°F)	T90 at <5 minutes	Modbus
5320	0.1% - 5%	-40°C to 70°C (-40°F to 158°F)	T90 at <60 seconds	Modbus, 4-20 mA Digital Contact
HY-GUARD	0.4 - 5%	-20°C to 60°C (-4°F to 140°F)	60 seconds ²	Modbus, 4-20 mA Digital Contact

1. The time taken for the sensor to record 90% of the full scale H₂ concentration

2. 60 seconds to activate 1% H₂ alarm when exposed to 2% of H₂

Advantages

- Self-calibrating - Maintenance free
- Modbus equipped - Display is optional
- Run fans only when hydrogen is present

Hydrogen Sensor Accessories



HYVIEW® Modbus Display Displays Percentage H ₂ or ppm	BRO-1 Modbus to Dry Contact Converter	HYAO-1 Modbus to 4-20 mA Converter	Sensor Mount & Cap Series 5000	Connectivity Options Cables & Connectors
Know your H ₂ risk. Check the Hydrogen level before entering battery rooms	Potential-free contacts trigger 1% and 2% H ₂ 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 sensor-linking up to four sensors

Specifications subject to change without notice. 12.25. © 2022-2025 H2scan