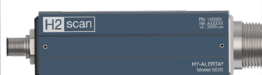
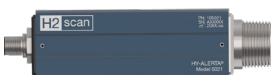



SELF-CALIBRATING HYDROGEN DETECTION

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.

| | | | | |
|---|---|--|---|--|
|  |  |  |  | |
| <p>Lithium Battery Rooms/Containers</p> | <p>Lead-Acid & Ni-Cad Rooms/Containers</p> | <p>All Battery Rooms/Containers</p> | <p>Area Monitoring Applications</p> | |
| <p>Model</p> | <p>HY-ALERTA® 5020 General Location</p> | <p>HY-ALERTA 5021 General Location</p> | <p>HY-ALERTA 5320 Intrinsically Safe</p> | <p>HY-GUARD™ General Location</p> |

| 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 |




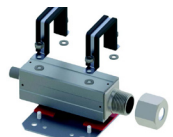

1. The time taken for the sensor to record 90% of the full scale H₂ concentration

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

Advantages

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

Hydrogen Sensor Accessories

| | | | | |
|---|--|--|--|---|
|  |  |  |  |  |
| <p>HYVIEW® Modbus Display Displays Percentage H₂ or ppm</p> <p>Know your H₂ risk. Check the Hydrogen level before entering battery rooms</p> | <p>BRO-1 Modbus to Dry Contact Converter</p> <p>Potential-free contacts trigger 1% and 2% H₂ gas alarms for four sensors</p> | <p>HYAO-1 Modbus to 4-20 mA Converter</p> <p>Converts Modbus sensor data to a standard 4-20 mA current signal</p> | <p>Sensor Mount & Cap Series 5000</p> <p>Versatile mounting solution for 5000 series sensors and protective contaminant shield caps</p> | <p>Connectivity Options Cables & Connectors</p> <p>Modular cabling system for connecting and sensor-linking up to four sensors</p> |

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