

# HY-GUARD™

Effortless, Continuous  
Hydrogen Monitoring  
for Battery Systems

## Prevention Starts with Detection



## Eliminate Risk. Increase Safety.

The HY-GUARD™ is an all-in-one hydrogen area monitor purpose-built to provide true safety assurance for standby battery systems and industrial applications. It offers a zero-maintenance experience with a 10+ year service life and continuous self-calibration, eliminating the need for manual site visits or calibration gases. Designed for easy integration, the monitor offers flexible communication options and multiple mounting options to help your facility remain compliant with current codes, directives, and standards. This compact solution delivers industry-leading sensing technology without the drift or false alarms common in traditional sensors.



- + High Tech
- + Low Maintenance
- + Easy Installation
- + Long Life

**DRIFT HAPPENS**

HY-GUARD's non-consumable dual sensors don't require downtime. While one sensor detects, the other automatically adjusts for drift every 12 hours, guaranteeing round-the-clock accuracy.



24/7  
Detection  
Perfection with  
**AccuSmart™**

# A Layered Approach to Hydrogen Protection

DECADES OF DETECTION



- Engineered to last the life of your battery
- 10-year calibration guarantee
- Rugged, non-conductive housing

ADVANCED SENSING TECHNOLOGY



- Solid-state, ultra-low power sensor
- No cross-sensitivities; no false alarms
- Only detect the real threat: hydrogen
- Robust electronics design
- 85 dB alarm buzzer
- Vibrant LED's you can't miss

CONNECTIVITY MADE EASY



- AC and/or DC powered
- 4–20 mA analog output
- 3 Form C relays (2 alarm / 1 fault)

## Install Anywhere

However your battery cabinet or room is designed, HY-GUARD installs in minutes.



PUNCH OUT



DIN RAIL\*



JUNCTION BOX



SURFACE MOUNT\*



WALL MOUNT\*

\* requires additional universal adapter plate accessory

## Sensor Performance

Accuracy	±0.3% H <sub>2</sub> ; Range 0–5%*
Response Time	60 seconds to 1% alarm
Detection Time	<5 seconds
LDL	0.4% H <sub>2</sub>
Resolution	1 ppm
Compatibility	Air, non-condensing humidity, hydrogen

## HY-GUARD Specifications

Humidity	0–95% RH, non-condensing
Ambient Temperature	0–50 °C
Storage Temperature	-20–60 °C
Pressure	0.8–1.2 ATM (absolute pressure)
Operational Voltage Input	AC: 85–264 VAC, 50/60 Hz DC: 15–60 V **DC: 90–250 V
Wire Gauge	AC: 12–24 AWG DC: 14–20 AWG
Dimensions (L x W x H)	5.2" x 5.1" x 2.1"

Distributed by

\*Prolonged exposure to hydrogen concentrations >5% may damage the sensor.

\*\*Alternative wiring connection required, refer to user manual.