

# SBS-H2 Hydrogen Gas Detector

Complete Hydrogen Detection System



The SBS-H2 Hydrogen Detector is a hydrogen detection system with visual and audible alarms and 1% and 2% hydrogen relays.

The system comes complete with the main control, a highly accurate hydrogen gas sensor and a 25 ft. cable. This unit can be powered with AC and/or DC power and can be mounted directly to a wall or to an electrical box, making it extremely versatile and very user-friendly.

The SBS-H2 includes relays for remote connection to alarm/monitoring systems and for control of external relays or an exhaust fan.

## Benefits

- Protects life, property and company profits
- Ideal for remote locations
- Fail safe mode in event of loss of power
- Up to three (3) sensors can be installed to main control to meet space coverage requirements

## Includes

- Main control
- Hydrogen sensor
- 25 ft. cable

## Applications

- Substations
- Battery rooms
- Uninterruptible power supply (UPS)
- Battery cabinet systems
- Battery charging areas
- Hydrogen fueled back-up power systems

## Features

- Universal power inputs: 110/220 Vac and/or 12-48 Vdc input
- Strobe light for visual alerts
- Sensor status indicator LEDs on the main control
- Modular design for optimal placement of sensor(s)
- NRTL/C Certified: UL Std. No. 61010-1
- CAN/CSA-C22.2 No. 61010-1-12



## Installation

- Wall or 2-gang junction box mountable
- Mechanical relays are easily accessible:
  - Warning 1% relay, 15 A @ 120 Vac; 10 A @ 277 Vac; 10 A @ 28 Vdc
  - Alarm 2% relay, 0.5 A resistive @ 28 Vdc, 0.5 A @ 125 Vac
- Redundant power supply capability; dual AC and/or DC power supply connections (DC power supply will operate as backup power source)
- Indicator LEDs can be tested by pushing the red "TEST" button
- Sensors can be tested in the field with the P/N H2-TESTKIT

## Main Control Mounting and Power Options



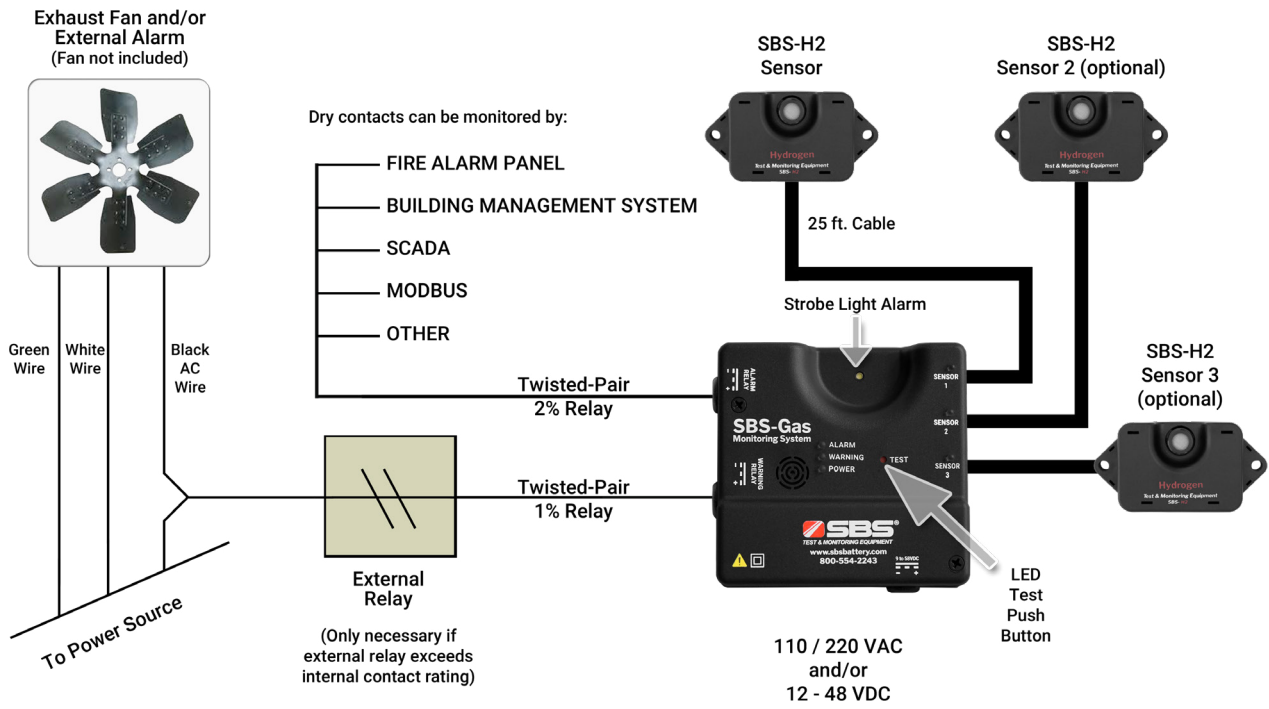
Wall-mountable



2-Gang Junction Box  
Hardwired AC and/or DC  
(optional)



18 AWG AC Cord (optional)



**Warning Settings:** Should the concentration of hydrogen gas in the air surrounding the sensor reach 1% by volume, the "1% Warning" yellow LED will light up on the main control of the unit. In addition, the 1% internal relay will de-energize and can be used to activate an external exhaust fan or a building management/alarm system (via SCADA Modbus).

**Alarm Settings:** Should the hydrogen gas concentration reach 2% by volume, the "2% Alarm" red LED will light up, the strobe will flash and an audible alarm will sound. In addition, the 2% internal relay will de-energize and can be used to activate a building management/alarm system (via SCADA/Modbus).

Ordering Information	
Part No.	Description
SBS-H2	Hydrogen detector with (1) sensor and 25 ft. cable

Accessory Ordering Information	
Part No.	Description
H2-SENSOR-25FT	Additional hydrogen sensor with 25 ft. cable
H2-SENSOR-50FT	Additional hydrogen sensor with 50 ft. cable
H2-SENSOR-100FT	Additional hydrogen sensor with 100 ft. cable
H2-TESTKIT	Test kit (includes 1% and 2% hydrogen, regulator, tubing and case) <b>Note: cannot ship via air freight</b>
H2-JB	4 11/16" x 4 11/16" 2-gang junction box
E190399	AC Cord 110 V, 10 A, 10 ft. with plug

Specifications	
1% Hydrogen	Dry contacts rated 10A/250 Vac
2% Hydrogen	Dry contacts rated .5A/28 Vdc
Power source	110/220 Vac, 50/60 Hz and/or 12-48 Vdc (9-58 Vdc operating voltage)
Temperature	Sensor rating of -4° F to 176° F (-20° C to 80° C)
Size	4.7" L x 4.7" W x 1.2" D (main control)

**Available Accessories**



Test Kit (international orders ship without compressed gas)



Additional Propane Sensor with 25 ft., 50 ft. or 100 ft. Cable



2-Gang Junction Box (Hardwired AC and/or DC)