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

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

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

Main Control Mounting and Power Options

Wall-mountable

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

18 AWG AC Cord (optional)
**HYDROGEN GAS DETECTOR**

**Ordering Information**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>SBS-H2</td>
<td>Hydrogen detector with (1) sensor and 25 ft. cable</td>
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**Accessory Ordering Information**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>H2-SENSOR-25FT</td>
<td>Additional hydrogen sensor with 25 ft. cable</td>
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<tr>
<td>H2-SENSOR-50FT</td>
<td>Additional hydrogen sensor with 50 ft. cable</td>
</tr>
<tr>
<td>H2-SENSOR-100FT</td>
<td>Additional hydrogen sensor with 100 ft. cable</td>
</tr>
<tr>
<td>H2-TESTKIT</td>
<td>Test kit (includes 1% and 2% hydrogen, regulator, tubing and case) <strong>Note: cannot ship via air freight</strong></td>
</tr>
<tr>
<td>H2-JB</td>
<td>4 11/16&quot; x 4 11/16&quot; 2-gang junction box</td>
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<tr>
<td>E190399</td>
<td>AC Cord 110 V, 10 A, 10 ft. with plug</td>
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**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)

**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 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 energize and can be used to activate a building management/alarm system (via SCADA/Modbus).

**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)