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

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**
- 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
- Protects life, property and company profits

**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, 15A @ 120 Vac; 10A @ 277 Vac; 10A @ 28 Vdc
  - Alarm 2% relay, 1A resistive @ 30 Vdc, 0.5A @ 125 Vac
  - Redundant power supply capability; dual AC 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

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

**Includes**
- Main control
- Hydrogen sensor
- 25 ft. cable

**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 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).

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### 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>
</tr>
<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% &amp; 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>
</tr>
<tr>
<td>E190399</td>
<td>AC Cord 110V, 10A, 10 ft. with plug</td>
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### Specifications

- **1% Hydrogen**
  - Dry contacts rated 10A/25 Vac
- **2% Hydrogen**
  - Dry contacts rated .5A/28 Vdc
- **Power source**
  - 110/220 Vac, 50/60 Hz **OR**
  - 12–48 Vdc (9–58 Vdc operating voltage)
- **Temperature**
  - Sensor temp. 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)