



# SBS-H2-DoD Gas Detector Test Kit

Exponential Power provides a test kit for use with the SBS-H2-DoD Hydrogen Sensor and Alarm system. Conveniently run multiple tests with the calibrated gases.

## Testing the SBS-H2-DoD Hydrogen Alarm System

The Alarm System is calibrated prior to shipment with set points to 1% hydrogen gas for each channel's Alarm threshold and 0.5% hydrogen gas for each 'Warning' threshold. It is recommended that the alarm system be checked every 12–18 months.

## Testing the Warning and Alarm Thresholds on the Alarm Box:

1. Connect the calibration fixture to the 0.5% hydrogen air gas cylinder.
2. Secure the test fixture to the sensor module connected to 'Sensor 1' by pressing the flexible tubing completely over the inlet to the sensor head (see figure 1).
3. Fully open the gas valve and apply gas for one full minute or until the 0.5% 'Warning' light activates.
4. Turn off gas and remove from sensor.



SBS-H2-DoD Test Kit

## Includes

- 0.5% and 1% hydrogen in air calibrated gas canisters  
(Note: international orders ship without gas canisters)
- Tubing to safely deliver gas to sensor head
- Carrying case



SBS-H2-DoD Sensor Inputs

## Testing the Warning State

Repeat Steps 1-4 above using the 1% hydrogen air gas cylinder to activate the 'Alarm' mode for 'Sensor 1'. The 'Alarm' threshold is connected to the red LED, the audible alarm, and the strobe light which will activate during testing.

Repeat steps for every sensor installed.

**WARNING:** The SBS-H2-DoD Hydrogen Alarm System is not a stand alone safety device and does not provide protection from hydrogen explosions. The relay contacts are intended to be connected to a safety system, enabling audible alarms, system shutdown, ventilation, or other measures to ensure safe handling and use of hydrogen gas.



Figure 1: Flexible Tubing Connected to Sensor

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