How to Use the SBS-H2 Alarm System Test Kit

SBS provides a test kit for use with the SBS-H2 Hydrogen Sensor and Alarm systems.

The Test Kit includes:

1. 1% and 2% H₂ in air calibrated gas canisters
2. Gas canister fitting for gas delivery
3. Tubing to safely deliver the gas to the sensor head

All of the above items are provided in a convenient carrying case for easy storage!

Calibrated gases can be used for multiple tests of your devices!
Testing the SBS-H2 Hydrogen Alarm System:

The Alarm System is calibrated prior to shipment with set points to 2% H₂ for each channel’s Alarm threshold and 1% H₂ 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 1% H₂ 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 picture on right).
3. Turn on the gas flow by slowly loosening the valve on the cylinder regulator until gas begins to flow. Please wait 30 seconds to ensure the air in the tubing has been purged.
4. Continue gas flow and wait for the Yellow ‘warning’ light to come on and the 1% relay to activate.
5. Turn off gas and remove from sensor.

TEST THE WARNING STATE:

Repeat Steps 1-5 above using the 2% H₂ 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 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.
Disclaimer

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. SBS reserves the right to make changes without further notice to any product, datasheet, technical data bulletin, or website.

SBS makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does SBS assume any liability arising out of the application or use of any product and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters, including Typical must be validated for each customer application by customer’s technical experts.

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In the case of a defect in the sensor, SBS shall not be liable for any damages which may result, including, but not limited to, loss of revenue, property, or life. In an event, SBS shall limit liability to replacement of the defective unit. SBS does not convey any license under its patent rights nor the rights of others.

WARNING

THIS DEVICE SENSES THE PRESENCE OF HYDROGEN. IT DOES NOT PREVENT FIRES OR EXPLOSIONS.

THIS DEVICE IS NOT A STAND-ALONE SAFETY DEVICE AND SHOULD BE INCORPORATED INTO A PROPER SAFETY SYSTEM.

IF SENSOR RESPONDS, THERE IS A RISK OF COMBUSTION OR EXPLOSION. TO AVOID INJURY, LEAVE AREA IMMEDIATELY.

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