

Data Sheet and Instructions for Model HIC-821-RS Hydrogen Detector

The model HIC-821-RS Hydrogen gas detector is calibrated at 20% of the Lower Explosive Limit of Hydrogen. Upon that level the gas detector will give a contact alarm signal and also a LED alarm signal.

The input power for this unit will be +12V to 35V DC or AC. There is a green color LED on the enclosure to indicate the input power.

The detector has a 10-minute delay for purging upon application of power. During the purge the green LED will flash. At the end of the purge light will change to steady. If the detector has been left without power for more than one day several purge cycle may be needed. Additional purge cycles may be activated by pressing the reset button.



If power to the detector is interrupted the relay reverts to the Alarm State. The recommended area for one detector is 10,000 cubic feet. The specified ambient temperature range of this unit is 20 to 120 degree F (-6.7 to 49 degree C).

Re-calibration is not required for 5 years. If at any time re-calibration is desired, we will perform it and issue a traceable certificate for a \$35.00 fee.

The following is the specs for the gas detector:

Power Input:	+12V to 35V DC or AC
Power Usage:	4.0 Watts "No Alarm State"; 6.0 Watts "Alarm State".
Gas Detected:	Hydrogen Gas
Alarm Setting:	20% LEL of Hydrogen
Alarm Indicators:	120V, 5A Relay Contact (NO) and Red LED Indicator on Enclosure

Electrical Connections:

- 1 = +12V to 35V AC or DC
- 2 = +12V to 35V AC or DC COMMON
- 3 = SENSOR INPUT HI (**Green Wire**)
- 4 = SENSOR INPUT LOW (**White Wire**)
- 5 = RELAY CONTACT (NO: when there is power and no gas presents)
- 6 = RELAY CONTACT COMMON
- 7 = +5V DC OUTPUT FOR EXTERNAL USE (**Red Wire**)
- 8 = +5V DC OUTPUT COMMON (**Black Wire**)

The size of the control unit is 4.75"L x 2.5"W x 1.5"H. It is supplied with DIN Rail for installation. The size of the remote sensor module is 2.7"L x 2.1"W x 1.6"H. It is supplied with velco for installation. The cable between the control unit and remote sensor module is default at 6 feet. Custom length up to 15 feet can be specified in purchase order at no extra charge.

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