



Data Sheet and Operation Instructions for Model HIC-813C/AN Methane and Propane Detector

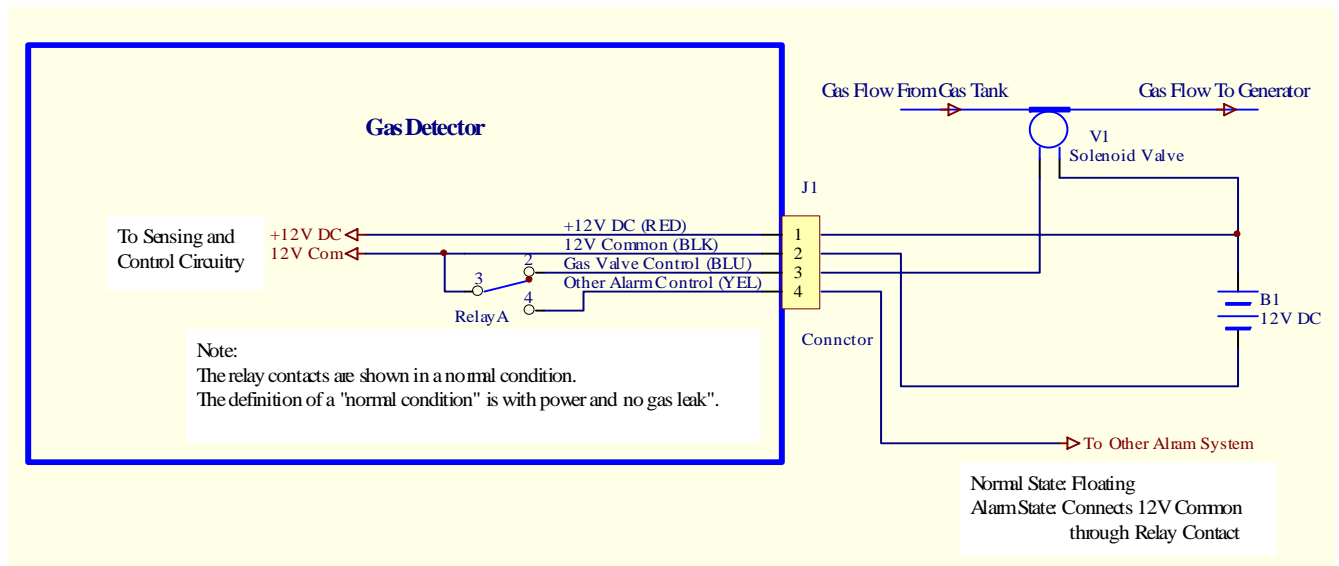


The model HIC-813C/AN is a detector that uses a semiconductor sensor to sense the targeted gases. This detector is appropriate for both Methane and Propane gases. There is a 5% difference in the response of the #813 sensor's between Methane and Propane. In order to correct for this difference to make the alarm concentration 20% for either Methane or Propane, a programming switch is used. To change from Methane (the default position) to Propane, just use a slot screwdriver to switch the position pointing to the word "Propane".

The sensor in this detector has a high temperature heater associated with the sensitive element. The purpose of the heater is to burn off contaminants that accumulate on the sensor. These contaminants can cause a false alarm. The longer the gas detector is left without power the greater the accumulation of contaminants. The detector has a built-in 10-minute delay to provide a chance for purging the contaminants upon power up to avoid signaling a false alarm. If the detector has been left without power for more than a day or two, more than one purging period may be required. Additional purging cycles can be initiated by pressing the reset button. The reset button may also be used to mute the alarm for 10 minutes at any time.

Methane is lighter than air and Propane is heavier than air. Therefore this detector should be mounted near the top of the enclosure being monitored for Methane, and near the floor for Propane. The size of the detector is 4.75"L x 2.5"W x 1.5"H. The weight of the detector is 0.7 LBs. It is supplied with velco for installation.

The relay contact is SPDT. The wiper is connected to the black wire, which is the common. The red wire is the +12V DC. The yellow wire is the connection to the remote alarm. The yellow wire will become connected to the common either if there is no power to the gas detector or if there is power to the gas detector and leaked gas is present. The blue wire completes the circuit to the common of the solenoid valve. It will not complete the circuit if there is no power to the gas detector or if there is power to the gas detector and gas is present. When the circuit is not completed the solenoid valve will remain in the closed position, cutting off the gas supply to the generator.



The maximum area for one detector to monitor is 400 square feet. Recalibration is not required for five years. We will perform a recalibration using NIST certified Methane and Propane for a \$35 fee. A traceable certificate of calibration will be issued when the recalibration service is done.