

# Thermal Gas Systems inc.

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**Haloguard® and Haloguard IR® Monitors**

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To: \_\_\_\_\_

Date: \_\_\_\_\_

AT: \_\_\_\_\_

FAX: \_\_\_\_\_

From: \_\_\_\_\_

Subject: Haloguard II/IR Model \_\_\_\_\_ S/N \_\_\_\_\_

**Message:** Please provide the following information so that we may determine the solution to your problem.

1- Describe the problem: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

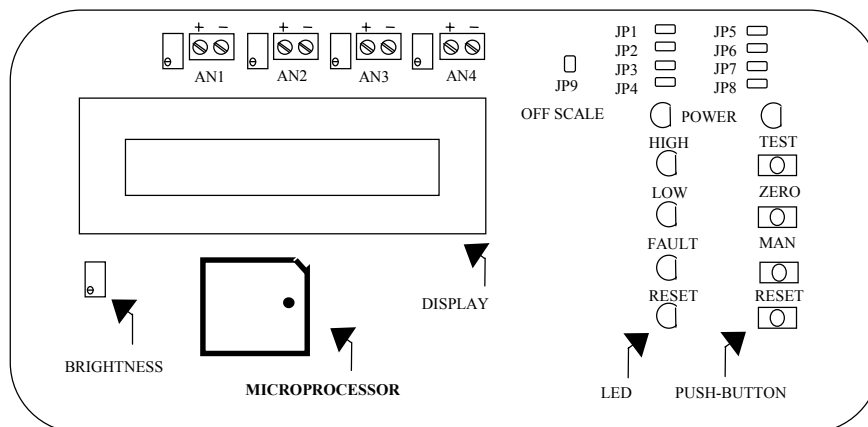
2- Refer to **Figure 5**. Observe the LCD on **Haloguard II Controller**. Provide information from each screen as it scrolls.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

3- Advise status of all the LEDs on the faceplate: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

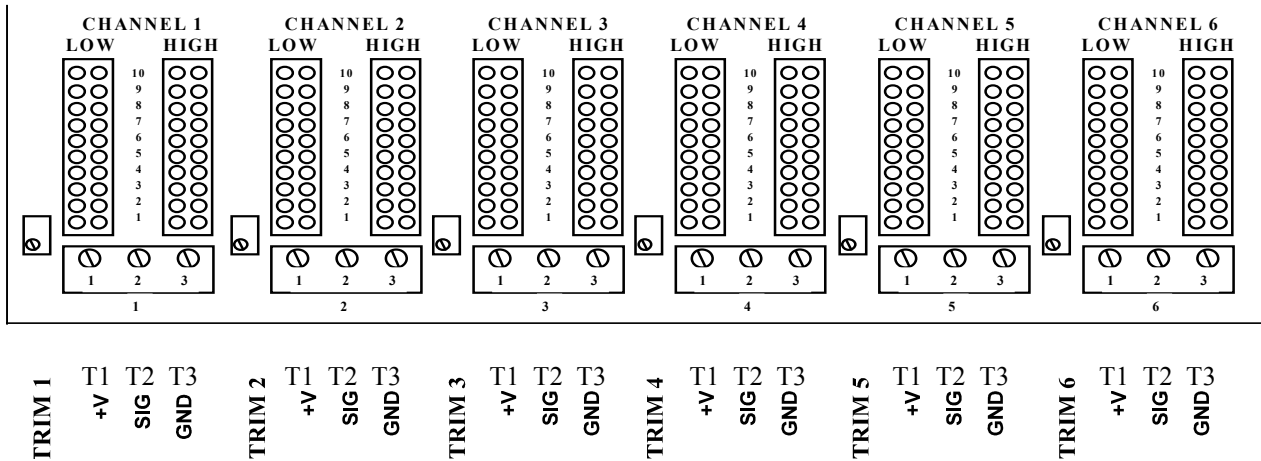
4- Remove the faceplate; Using **Figure 2** as a guide, circle which positions have jumpers installed JP-1 thru JP-9.

JP-1	JP-2	JP-3	JP-4	JP-5	JP-6	JP-7	JP-8	JP-9
ON	ON	ON	ON	ON	ON	ON	ON	ON
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

5- Using **Figure 2** as a guide put jumper on JP5, record all information displayed: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**Figure 2 - Haloguard II Controller Upper Circuit Board**



**Figure 3 - Haloguard II Controller Lower Circuit Board**

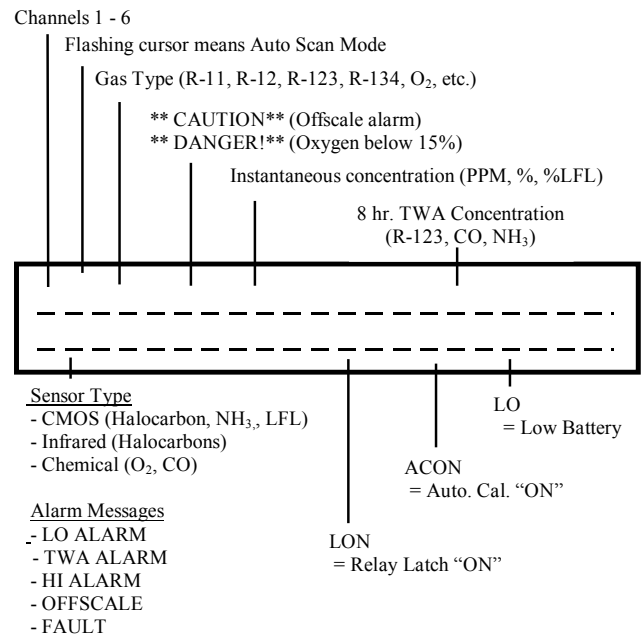
- 6- Using **Figure 3** as a guide, measure voltage between +V and GND, also between SIG and GND. at terminals T1 thru T3. Record values to the nearest millivolt (0.001V) for each sensor. Record alarm jumper settings.

CHANNEL	1	2	3	4	5	6
+V & GND						
SIG & GND						
Low Alarm						
High Alarm						

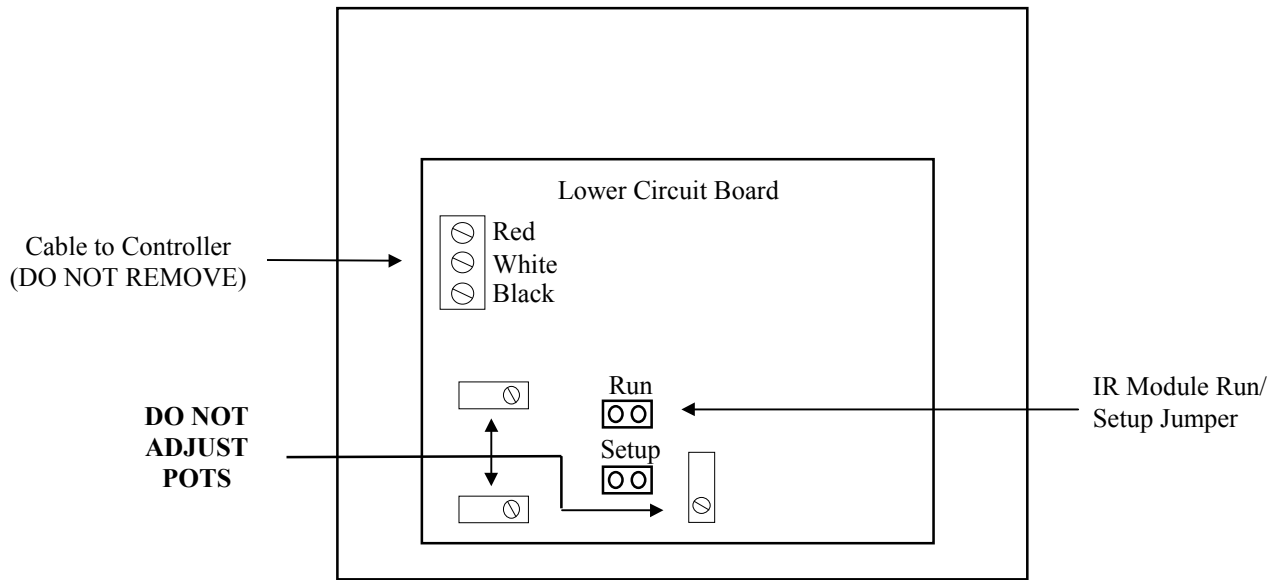
- 7- Remove the Junction Box cover. Using **Figure 4** as a guide advise wire terminations.

<b>OFF SCALE</b>	1	○	NC
	2	○	COM
	3	○	NO
<b>HI ALARM</b>	4	○	NC
	5	○	COM
	6	○	NO
<b>LO ALARM</b>	7	○	NC
	8	○	COM
	9	○	NO
<b>FAULT</b>	10	○	NC
	11	○	COM
	12	○	NO

**Figure 4 - Junction Box Relay**



**Figure 5 - LCD Display Features**



**Figure 7 - IR Sensor Module Circuit Boards**

**At the IR Sensor Module**

- 8- Open the **IR Sensor Module**. Using **Figure 7**, move jumper from **RUN** to **SETUP**.
- 9- Examine the condition of clear plastic tubing inside the **IR Sensor Module**. Make sure tubing has not detached from fittings.

**At Haloguard II Controller**

- 10- Wait at least one minute, then **Repeat Step 6** Above. Using **Figure 3** as a guide, measure voltage between +V and GND, also between SIG and GND. at terminals T1 thru T3. Record values to the nearest millivolt (0.001V) for each IR Sensor Module.

CHANNEL	1	2	3	4	5	6
+V & GND						
SIG & GND						

- 11- Refer to **Figure 5**. Observe the LCD on **Haloguard II Controller**. Provide information from each screen as it scrolls.

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**At the IR Sensor Module**

- 12- Move jumper from **SETUP** to **RUN**. Close the **IR Sensor Module**.

The complete instruction manual may be helpful. If a copy is required, please let me know.