

# Programming the T775M as FAMU Temperature Controller

To program the controller, perform the following procedures in the order listed:

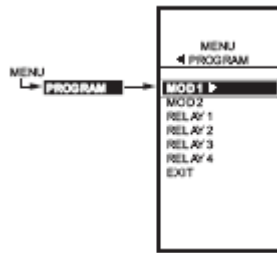


Fig. 1

## 1.1. Entering Program Mode

Press the MENU button, then select PROGRAM and press the ► button to view the program menu.

Fig. 1 shows the Program menu for controller.

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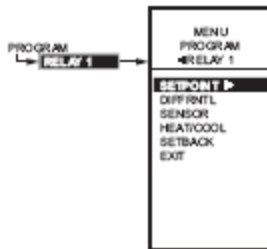


Fig. 2

## 1.2. Program Menu for Outputs

1. From the menu, use the ▲ and ▼ buttons to highlight MOD 1.
  2. Press the ► button to select MOD 1 to view the parameters. Fig. 2 shows RELAY 1. In MOD 1, THROT RNG replaces DIFFERNTL.
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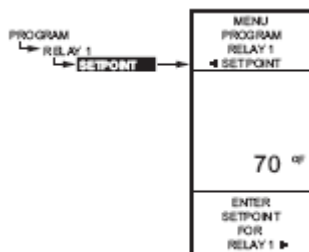
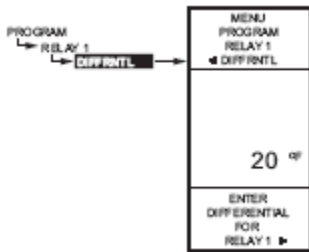


Fig. Program – Setpoint

### 1.2.1. SETPOINT for MOD 1

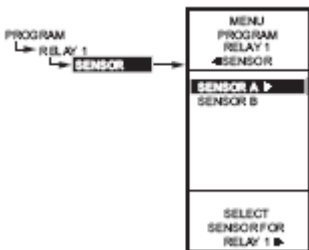
1. From the menu, use the ▲ and ▼ buttons to highlight SETPOINT.
2. Press the ► button to display the setpoint value.
3. Use the ▲ and ▼ buttons to increase/decrease the desired setpoint temperature.  
**Set the temperature to 55° F.**
4. Press the ► button to accept the setpoint temperature and display the next option.



### 1.2.2. SETTING THROTTLING RANGE

Fig. Program – Throttling Range

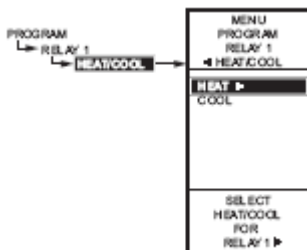
1. From the menu, use the ▲ and ▼ buttons to highlight THROT RNG.
2. Press the ► button to display the throttling range value.
3. Use the ▲ and ▼ buttons to increase/decrease the desired value.  
**Set the value to 10° F.**
4. Press the ► button to accept the value and display the next option.



### 1.2.3. SENSOR

Fig. Program – Sensor

1. From the menu, use the ▲ and ▼ buttons to highlight SENSOR.
2. Press the ► button to display the sensor selections.
3. Use the ▲ and ▼ buttons to select Sensor A or B.  
**Select sensor B.**
4. Press the ► button to accept the highlighted sensor and display the next option.



### 1.2.4. HEAT/COOL

Fig. Program Heat/Cool

1. From the menu, use the ▲ and ▼ buttons to highlight HEAT/COOL (Default: HEAT).
2. Press the ► button to display the heat and cool selections.
3. Use the ▲ and ▼ buttons to select Heat or Cool.  
**Select COOL.**
4. Press the ► button to accept the highlighted selection and display the next option.

### 1.2.5. Exit

Press the ► button to accept the highlighted selection EXIT. This will display the main Program Menu screen (Fig. 1)

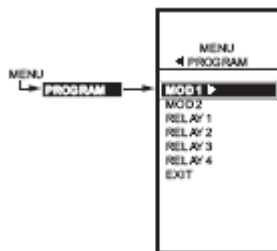


Fig. 1

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### 1.3. Program Next Output (MOD 2)

1. From the menu, use the ▲ and ▼ buttons to highlight MOD 2.
  2. Press the ► button to select MOD 2 to view the parameters.
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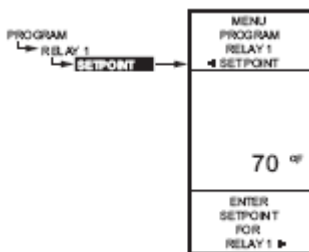
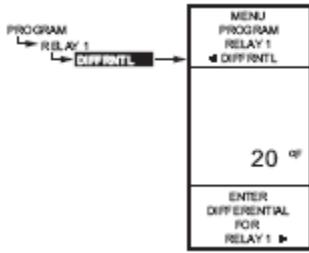


Fig. Program - Setpoint

#### 1.3.1. SETPOINT for MOD 2

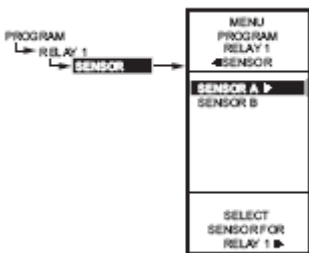
1. From the menu, use the ▲ and ▼ buttons to highlight SETPOINT.
  2. Press the ► button to display the setpoint value.
  3. Use the ▲ and ▼ buttons to increase/decrease the desired setpoint temperature.  
**Set the temperature to 55° F.**
  4. Press the ► button to accept the setpoint temperature and display the next option.
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### 1.3.2. SETTING THROTTLING RANGE

Fig. Program – Throttling Range

1. From the menu, use the ▲ and ▼ buttons to highlight THROT RNG.
  2. Press the ► button to display the throttling range value.
  3. Use the ▲ and ▼ buttons to increase/decrease the desired value.  
**Set the value to 10° F.**
  4. Press the ► button to accept the value and display the next option.
- 



### 1.3.3. SENSOR

Fig. Program – Sensor

5. From the menu, use the ▲ and ▼ buttons to highlight SENSOR.
  6. Press the ► button to display the sensor selections.
  7. Use the ▲ and ▼ buttons to select Sensor A or B.  
**Select sensor A.**
  8. Press the ► button to accept the highlighted sensor and display the next option.
-

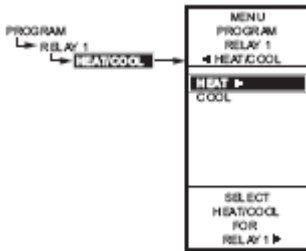


Fig. Program Heat/Cool

### 1.3.4. HEAT/COOL

5. From the menu, use the ▲ and ▼ buttons to highlight HEAT/COOL (Default: HEAT).
6. Press the ► button to display the heat and cool selections.
7. Use the ▲ and ▼ buttons to select Heat or Cool.  
**Select HEAT.**
8. Press the ► button to accept the highlighted selection and display the next option.

### 1.3.5. Exit

Press the ► button to accept the highlighted selection EXIT. This will display the main Program Menu screen (Fig. 1)

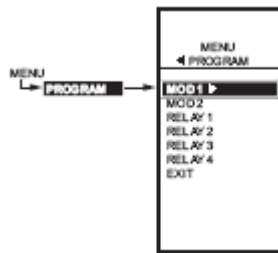


Fig. 1

### 1.4. Program Next Output (RELAY 1)

1. From the menu, use the ▲ and ▼ buttons to highlight RELAY 1.

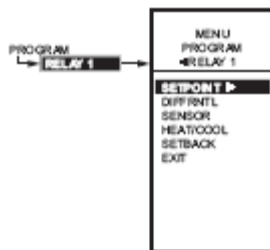
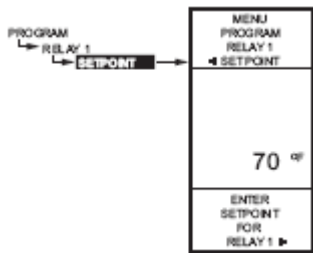


Fig. 2

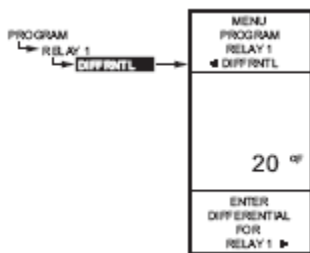
2. Press the ► button to select RELAY 1 to view the parameters.



### 1.4.1. SETPOINT for RELAY 1

Fig. Program - Setpoint

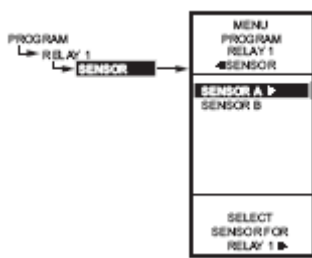
1. From the menu, use the ▲ and ▼ buttons to highlight SETPOINT (Fig. 2).
2. Press the ► button to display the setpoint value.
3. Use the ▲ and ▼ buttons to increase/decrease the desired setpoint temperature.  
**Set the temperature to 100° F.**
4. Press the ► button to accept the setpoint temperature and display the next option.



### 1.4.2. DIFFERENTIAL SETTING

Fig. Program – Differential

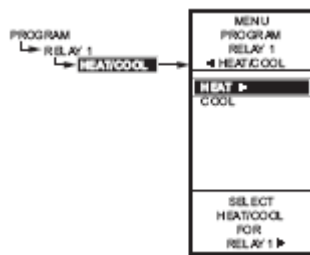
1. From the menu, use the ▲ and ▼ buttons to highlight DIFFERNTL.
2. Press the ► button to display the differential value.
3. Use the ▲ and ▼ buttons to increase/decrease the desired value.  
**Set the value to 10° F.**
4. Press the ► button to accept the value and display the next option.



### 1.4.3. SENSOR

Fig. Program – Sensor

1. From the menu, use the ▲ and ▼ buttons to highlight SENSOR.
2. Press the ► button to display the sensor selections.
3. Use the ▲ and ▼ buttons to select Sensor A or B.  
**Select sensor A.**
4. Press the ► button to accept the highlighted sensor and display the next option.



### 1.4.4. HEAT/COOL

Fig. Program Heat/Cool

1. From the menu, use the ▲ and ▼ buttons to highlight HEAT/COOL (Default: HEAT).
2. Press the ► button to display the heat and cool selections.
3. Use the ▲ and ▼ buttons to select Heat or Cool.  
**Select HEAT.**
4. Press the ► button to accept the highlighted selection and display the next option.

### 1.4.5. Exit

Press the ► button to accept the highlighted selection EXIT. This will display the main Program Menu screen (Fig. 1)

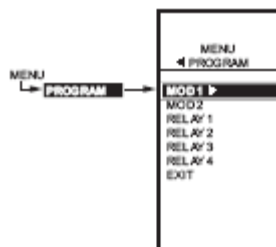


Fig. 1

### 1.5.1. Program Next Output (Relay 2)

3. From the menu, use the ▲ and ▼ buttons to highlight RELAY 2.

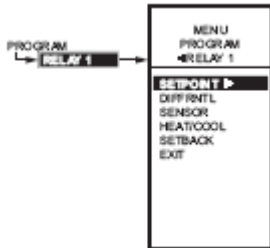


Fig. 2

4. Press the ► button to select RELAY 2 to view the parameters.(Fig. 2 shows RELAY 1.)
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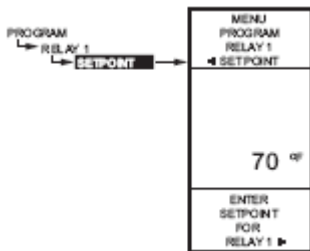
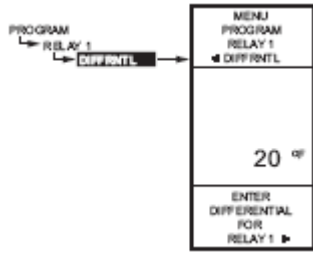


Fig. Program - Setpoint

### 1.5.2. SETPOINT

5. From the menu, use the ▲ and ▼ buttons to highlight SETPOINT.
  6. Press the ► button to display the setpoint value.
  7. Use the ▲ and ▼ buttons to increase/decrease the desired setpoint temperature.  
**Set the temperature to 65° F.**
  8. Press the ► button to accept the setpoint temperature and display the next option.
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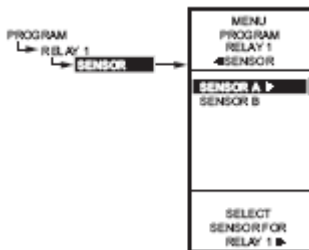




### 1.5.3. DIFFERENTIAL SETTING

Fig. Program – Differential

5. From the menu, use the ▲ and ▼ buttons to highlight DIFFERNTL.
  6. Press the ► button to display the differential value.
  7. Use the ▲ and ▼ buttons to increase/decrease the desired value.  
**Set the value to 3° F.**
  8. Press the ► button to accept the value and display the next option.
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### 1.5.4. SENSOR

Fig. Program – Sensor

5. From the menu, use the ▲ and ▼ buttons to highlight SENSOR.
  6. Press the ► button to display the sensor selections.
  7. Use the ▲ and ▼ buttons to select Sensor A or B.  
**Select sensor B.**
  8. Press the ► button to accept the highlighted sensor and display the next option.
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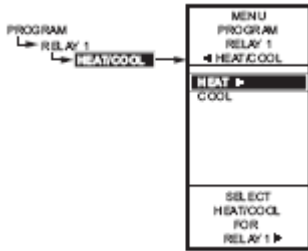


Fig. Program Heat/Cool

### 1.5.5. HEAT/COOL

5. From the menu, use the ▲ and ▼ buttons to highlight HEAT/COOL (Default: HEAT).
6. Press the ► button to display the heat and cool selections.
7. Use the ▲ and ▼ buttons to select Heat or Cool.  
**Select COOL.**
8. Press the ► button to accept the highlighted selection and display the next option.

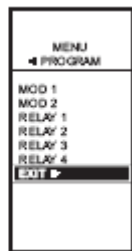


Fig. Program – Exit

### 1.5.6. Exiting Program Mode

Press the HOME button to leave programming mode and return to the home screen.

This completes the programming procedure.

**Temperature Controller "TC" Settings  
AQFAH-02 THRU 09**

<b>Setting</b>	<b>MOD 1</b>	<b>MOD 2</b>	<b>Relay 1</b>	<b>Relay 2</b>
<b>Setpoint</b>	55°	55°	100°	65°
<b>Throttling / Differential</b>	10°	10°	10°	3°
<b>Sensor</b>	B	A	A	B
<b>Heat / Cool</b>	Cool	Heat	Heat	Cool
<b># of Sensors = 2</b> <b>Units = F°</b> <b>Sensor A Label = Return</b> <b>Sensor B Label = Supply</b>				