

7431 Temp-A-Stat™

Operation, Maintenance & Installation Manual



Introduction

The Temp-A-Stat can monitor temperatures from -40 F (-40 C) to +185 F (+85 C). A digital display shows the current temperature of the area you are monitoring. You will need to adjust the temperature settings for your specific application. Indicator lights illuminate if an alarm condition occurs. A remote alarm (Versa'alarm Part # 7013) or an (Auto Dialer Part # 7006) can be added for remote notification.

Safety Guidelines



1. DO NOT USE WITH FLAMMABLE OR EXPLOSIVE FLUIDS SUCH AS GASOLINE, FUEL OIL, KEROSENE, ETC. DO NOT USE IN EXPLOSIVE ATMOSPHERES. PROBE SWITCH SHOULD ONLY BE USED TO MEASURE AIR OR WATER TEMPERATURE. DO NOT SUBMERGE PROBE CABLE! ONLY THE PROBE CAN BE SUBMERGED.
2. DISPLAY PANEL & OPTIONAL REMOTE ALARM MUST BE MOUNTED INDOORS. FOR OUTDOOR APPLICATIONS CONSULT FACTORY.

Tools & Supplies needed for installation

1. Flat blade screw driver (very small)
2. Phillips screw driver
3. (Optional) 22 AWG wire
4. (Optional) 9V battery
5. (Optional) Wire stripper

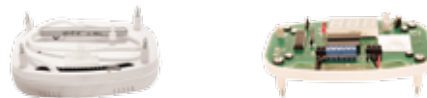
INSTALLATION

1. The Temp-A-Stat includes the following components; The logic and digital display panel (Fig. A), the temperature sensing probe (Fig. B), a power supply (Fig. C), mounting screws (Fig. D) and a cord restraint (Fig. E)

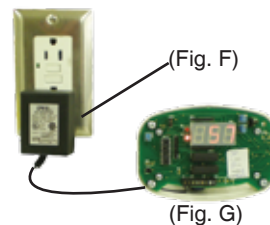
(Fig. A) (Fig. B) (Fig. C) (Fig. D) (Fig. E)



2. Insert a flat blade screwdriver between the cover and the back plate and twist the screwdriver to open.



3. Plug the power supply (Fig. F) into a 120 volt outlet to power up the Temp-A-Stat. The digital display should be illuminated. If the unit does not have power, double check the wiring from the power supply (Fig. F) to terminal blocks 1 & 2 (Fig. G).

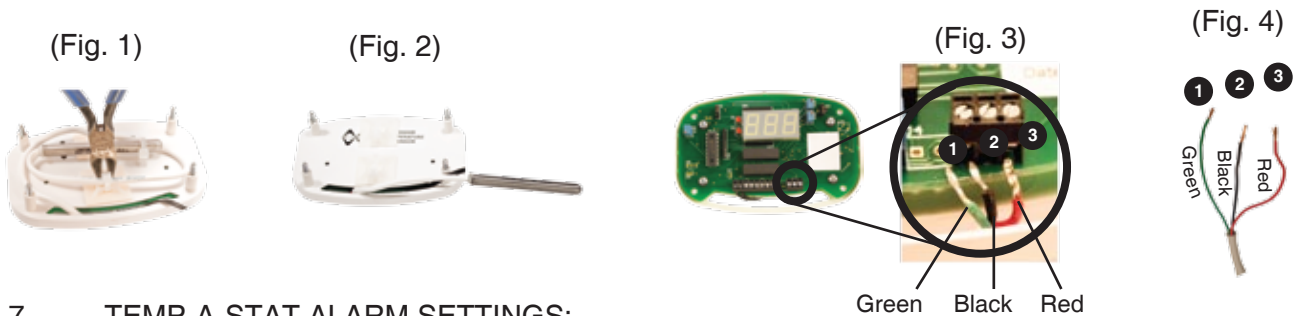


4. **YOU NEED TO DETACH THE PROBE FROM THE CABLE TIES IF:** You are monitoring air or liquid temperature in a location other than the alarm panel. Example: The probe is mounted in a freezer and the alarm panel is mounted outside of the freezer.

YOU DO NOT NEED TO DETACH THE PROBE IF: You are monitoring air temperature only, and if you are monitoring in the same location where you mounted the alarm panel.

Installation Continued

5. For Temp-A-Stat installations that require detaching the probe for remote temperature monitoring go to #6 then #7. For Temp-A-Stat installations where the probe remains attached go to #7.
6. **TEMP-A-STAT WITH DETACHED PROBE:** Cut the tie strap (Fig.1) that is restraining the probe cable to the back of the alarm panel. When the probe cable is released from the tie strap you will have 12" of cable attached to a 4" probe (Fig. 2). If you need more than 12" of probe cable simply connect 3 conductor 18AWG-22AWG wire to the existing probe cable. Remove the probe cable from the terminal block (Fig. 3) and number the wires on the probe cable from left to right. Label the new 3 conductor wire to match the wires on the probe cable (Fig. 4). Use a junction box and wire nuts to make the connection per local electrical codes.



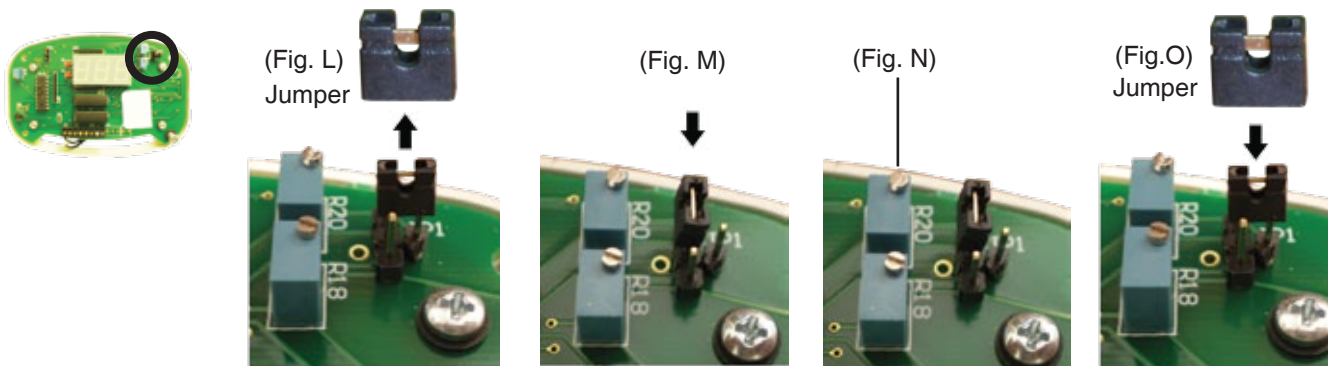
7. **TEMP-A-STAT ALARM SETTINGS:**

7A. For High Temperature alarm settings go to #8

7B. For Low Temperature alarm settings go to #9.

7C. For High and Low Temperature alarm settings go to #8 and then #9.

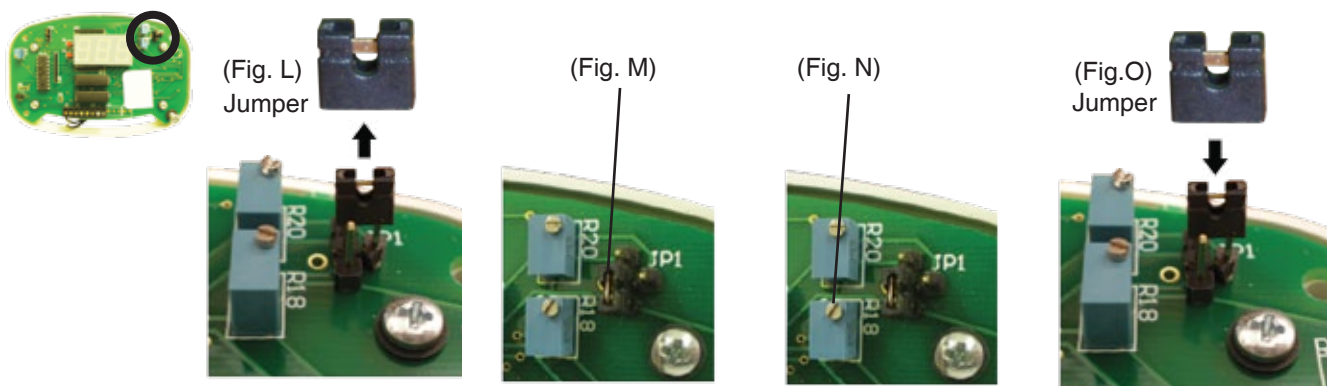
8. **HIGH TEMP ALARM SETTINGS:** Manually set the High Temp by placing the jumper (Fig. L) from JP1 into the 12 o'clock position (Fig. M). Then use a flat blade screwdriver to adjust the screw R20 (Fig. N) to set the High Temp alarm. The digital display should increase or decrease as you turn the adjustment. When the High Temp alarm is set, place the Jumper (Fig. O) back to the 3 o'clock position on the pins.



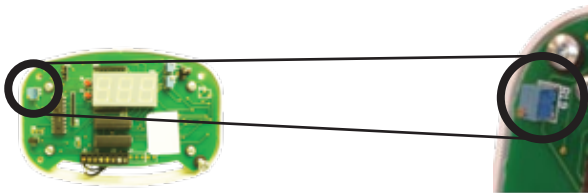
Installation Continued

9. LOW LEVEL ALARM SETTINGS:

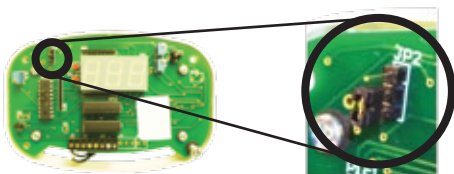
Manually set the Low Temp setting by placing the jumper (Fig. L) from JP1 into the 6 o'clock position (Fig. M). Then use a flat blade screwdriver to adjust the screw R18 (Fig. N) to set the Low Temp alarm. The digital display should increase or decrease as you turn the adjustment. When the Low Temp alarm is set, place the Jumper (Fig. O) back to the 3 o'clock position on the pins.



10. If you want the Temp-A-Stat to be calibrated to other temperature sensors in the room adjust R19 with a flat blade screwdriver.



11. To monitor temperature in Celsius instead of Fahrenheit place the jumper on the bottom of the two prongs on JP2.



Installation Continued

12. Connecting the Temp-A-Stat to a Versa'alarm.

12A. For High Temperature Alarm go to 13, and then 13A.

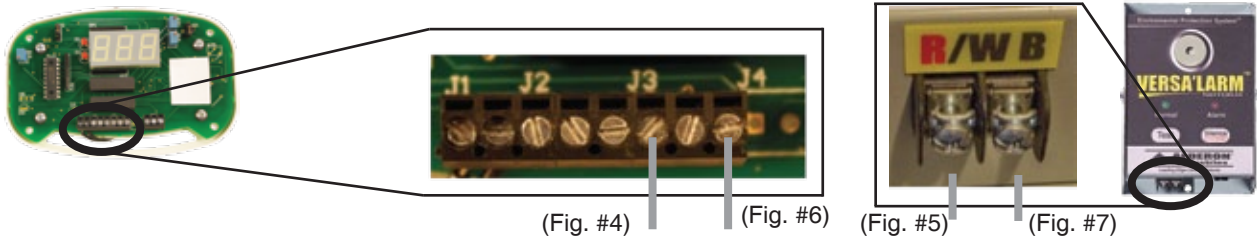
12B. For Low Temperature Alarm go to 13, and then 13B.

12C. For High and Low Temperature Alarm complete steps 13, 13A & 13B.

13 Mount the Versa'alarm to the wall using the top mounting screw (Fig. #1) and the bottom mounting screw (Fig. #2). Plug the power supply into a 120 VAC outlet. (Fig. #3).



13A. To use as a High Temperature Alarm, make two pieces of 18 AWG-22 AWG Low Voltage Wire that are long enough to reach from the Alarm Panel to the Versa'alarm. Strip each end of the wire so approximately 1/4" of bare wire is exposed. Choose one of the wires to be the common wire. This wire will be connected to terminal block 6 on the Alarm Panel (Fig. #4). The other end of this wire will be connected to the terminal on the bottom left of the Versa'alarm (Fig. #5). The other wire you cut will be the (High Alarm) wire. Connect this wire to terminal block (8) on the alarm panel (Fig. #6). The other end of this wire is connected to the right side of the terminal on the Versa'alarm (Fig. #7).



13B. To use as a Low Temperature Alarm, make two pieces of 18 AWG-22 AWG Low Voltage Wire that are long enough to reach from the Alarm Panel to the Versa'alarm. Strip each end of the wire so approximately 1/4" of bare wire is exposed. Choose one of the wires to be the common wire. This wire will be connected to terminal block 3 on the Alarm Panel (Fig. #8). The other end of this wire will be connected to the terminal on the bottom left of the Versa'alarm (Fig. #9). The other wire you cut will be the (Low Alarm) wire. Connect this wire to terminal block (5) on the alarm panel (Fig. #10). The other end of this wire is connected to the right side of the terminal on the Versa'alarm (Fig. #11).

