

## Installation Guide

### Required Tools

- digital voltmeter
- small phillips screwdriver
- small flatblade screwdriver
- keyhole saw

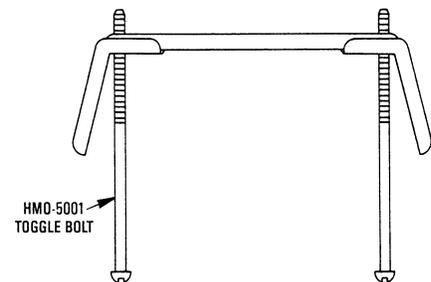
### Mounting

Standard:

- The base unit's mounting slots are designed to align with the holes in a standard 2" x 4" (51x102) handy conduit box.
- Use a 2" (51) deep box if using conduit.
- Normal screw and anchor systems may be used on solid walls.

Hollow wall:

1. Cut a 3-3/4" x 1-3/4" rectangular opening in the wall.  
(Check if unit is horizontal or vertical before cutting)
2. Make all necessary connections
3. Insert Toggle Bolt Assembly (HMO-5001, ordered separately) through the wall and tighten.

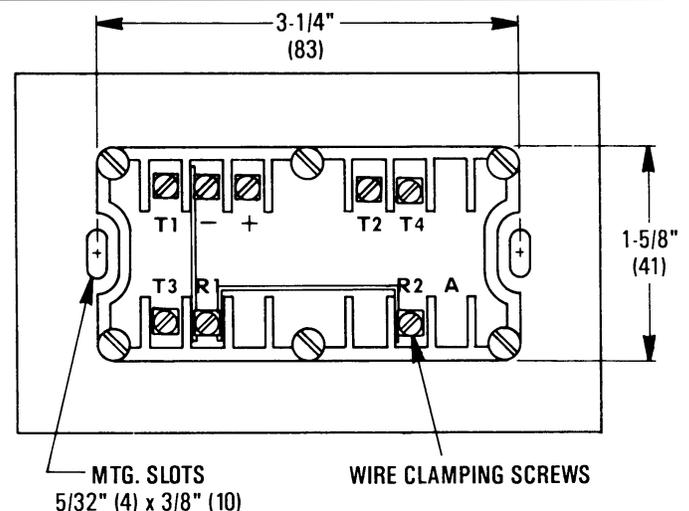


Care should be taken not to bend or flex the base of the thermostat.

### Wiring

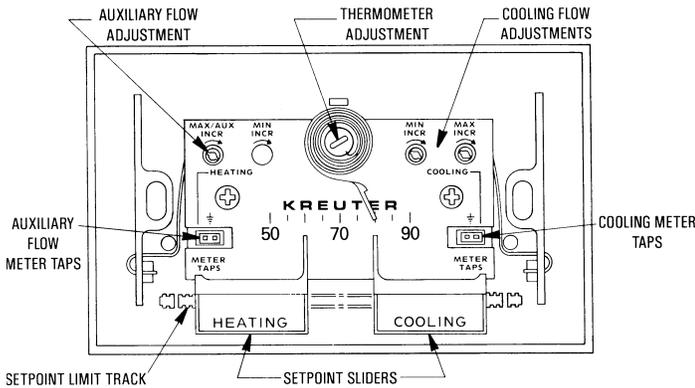
Typically, T1 and T3 are used for cooling and T2 and T4 are used for heating. Refer to the wiring diagram.

**CTE-1004 has a jumper installed from terminal "A" to terminal "4".** This causes the thermostat to switch to an auxiliary flow lever when a call for heating begins. This flow level may be adjusted under the cover. If auxiliary flow is not needed, remove the jumper.



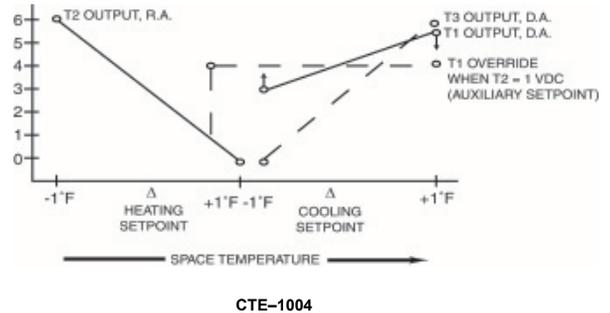
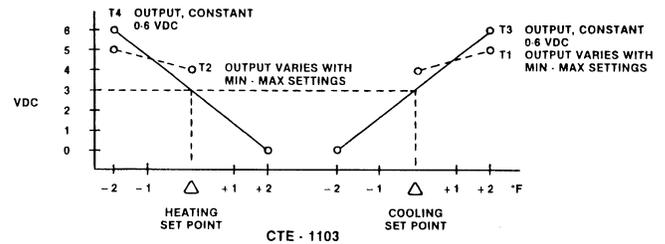
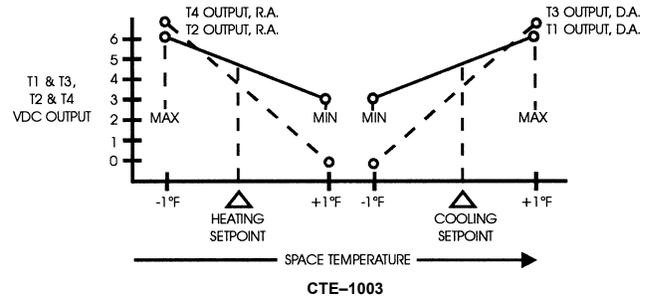
# Adjustments and Calibration

Upon receipt, no thermal calibration should be required.



Flow control points can be calibrated before or after installation.

1. Verify 9.1 VDC between (+) and (-) terminals. Refer to wiring diagram.
2. Measure T1 output voltage.
3. Refer to the graphs (right) to make adjustments.
4. Always adjust the minimum flow first.
  - a. DA Cooling; Set point > Room Temp.
  - b. RA Heating; Set point < Room Temp.
5. Always adjust maximum limits to a value higher than the minimum limits. If in doubt, turn Max. limit fully clockwise (increase) before proceeding.
  - a. DA Cooling; Set point < Room Temp.
  - b. RA Heating; Set point > Room Temp.



# Maintenance

No routine maintenance is required. Each component is designed for dependable, long term reliability and performance. Careful installation will also ensure long term reliability and performance.

**KMC Controls**  
 P.O. Box 497  
 19476 Industrial Drive  
 New Paris, IN 46553  
 U.S.A.  
 TEL: 574.831.5250  
 FAX: 574.831.5252  
 E-mail: info@kmccontrols.com