UT THERMOSTAT INSTALLATION INSTRUCTIONS

lation Instructions:

Figure read all the instructions carefully before starting. Leave this instruction sheet near the thermostat after installation.

Specifications:

For use with self powered 250-750 millivolt generating systems and 2 wire (UT1001, Heating Only), or 3 wire (UT3001, Cooling Only), 4 or 5 wire (UT8001, Heat/Cool) electric, gas or oil systems equipped with 24Vac controls.

Electrical Rating: 24-30 Vac Heat Anticipator: 0.1A-1.0A Cool Anticipator: 0-1A (or 250-750mv) (Adjustable) (Fixed)

Selecting Thermostat Location:

For accurate temperature control and comfort, selecting the proper location is very important.

If this is a new installation, the guidelines listed below should be followed. When replacing an old thermostat install the new thermostat in the same location unless these guidelines suggest otherwise.

- 1: Locate the thermostat on an inside wall of a frequently occupied area (ie: family room) about 4-5 feet above the floor.
- 2: Do not install the thermostat where there are unusual sources of 'heat', such as direct sunlight, or near a radiator, duct vent, lamp, or fireplace.
- 3: Do not install the thermostat where there are unusual sources of 'cooling', such as an outside wall, drafts from doors, windows, stairways, or duct vents.
- 4: Do not install the thermostat where the air circulation is poor, such as in a corner, alcove or behind a door.

Removing Old Thermostat:

WARNING

If product is used to replace a device containing mercury, the purchaser or consumer must ensure that the mercury is properly managed to comply with state or federal regulations. Additional guidance may be obtained from the manufacturer of the product being removed or by calling the Material Manager.

Outside Tennessee: 1-800-251-7828 Inside Tennessee: 1-423-477-4131

These numbers are for assistance in the proper disposal of old mercury thermostats.

- 1: Shut off electricity to your heating and/or cooling system by removing the associated fuse or switching the circuit breaker off.
- 2: Remove the cover of the old thermostat. If you do not see the system wires, then you will have to remove another section of thermostat. This may require the use of a screwdriver.
- 3: Observe the terminal markings of each wire. Label each wire with tape indicating the appropriate terminal markings to allow easy installation of the UT thermostat.
- 4: After you have marked the existing wires, remove the wires from the terminals.
- 5: Remove the old thermostat base from the wall.

Installing the UT Thermostat:

- 1: Hold the UT thermostat in one hand. Carefully remove cover from the thermostat base by pulling up gently.
- 2: Position thermostat base on wall and carefully feed existing wires through openings. The UT can be positioned horizontally or vertically. If to be installed in the horizontal position, the adjustment lever must extend out the right side of the thermostat. If installed in the vertical position, the lever must extend out the bottom of the thermostat.
- 3: After you have finished locating the UT thermostat, you can mark the cement of the two screw holes for mounting. Set aside the the ostat base.

- 4: If you are mounting the thermostat on plaster board or another type of soft material, use plastic anchors. Use a $\frac{3}{16}$ "drill to make two holes where the mounting holes have been marked. Insert anchors into holes.
- 5: Feed the wire back through the base, then mount to the wall with supplied screws.
- 6: Connect the wires to their associated marked terminals. (See chart if old and new terminals do not match exactly)
- 7: Check all connections so that adjacent wires are not touching.
- 8: Replace cover onto base by snapping it into place.
- 9: Make sure the system switch is in the OFF position until you are ready to check your wiring.

Old Thermostat	New Label	Description
M, 4, RH, R5, or 5	RH, or R	Transformer Hot for Heat*
V, or RC	RC, or R	Transformer Hot for Cool*
H, W, or 4	W	Heating Control (valve, relay, etc.)
Y, or Y6	Υ ·	Cooling Control (valve, relay, etc.)
F, or G	G	Fan Control (see internal fan option)
*For sonorate PH and PC wires, you must remove the factory		

*For seperate RH and RC wires, you must remove the factory installed Jumper marked J2.

Internal Fan Option (UT8001 only):

For gas or oil heating systems, place the J1 jumper on the G/O pins to allow natural system delay in the fan operation during the heat mode

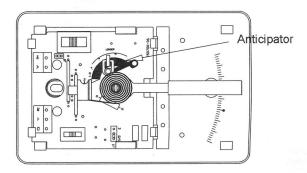
If the heating system requires the fan to come on immediatly with the heat (ie: electric heating systems), then place the J1 jumper on the E pins.

G/O- Fan turned on by heating system.

E- Fan turned on by thermostat in the heat mode.

Setting the Heat Anticipator (UT1001 & UT8001 only):

To help provide accurate control of furnace heat cycles, you must adjust the anticipator setting of the UT thermostat to match the current rating of the system control device. For Millivolt operation the heating anticipator setting must be placed over the MV.



This setting can be found by looking at the setting used on the previous thermostat. If you are unable to find it, the information can be found in the owner's manual for the heating system. You can also find the information printed on the control device at the furnace. The control device is normally a gas valve, relay, or a pilot generator located behind the furnace cover.

If the current rating is still unavailable, connect an AC amp meter between the RH and W terminals on the thermostat. Let the system operate through the amp meter for at least one minute before taking the reading. The reading can then be used as the setting for the anticipator.

Mc Master - Carr