ATTACHING THERMOSTAT TO WALL
1. Attach the thermostat directly to wall with the screws and wall anchors provided using the two elogated holes at the top of the thermostat.
2. Level the thermostat. Use a level placed on top of the thermostat for best results. Minor adjustments can be made using the elogated holes. Securely tighten the mounting screws.

IMPORTANT: This thermostat was calibrated at true level. Any inaccuracy in level will cause a control point deviation. Care must be taken to mount the thermostat in a true level position.

HEATING ANTICIPATION
1. This thermostat is equipped with fixed anticipators for stage one heat and cooling which do not require adjustment. Stage two heat anticipator must be set to the current of the second stage heating component if it controlling times 1.5.
2. To determine the correct heat anticipator setting, use a digital AC ammeter by breaking the W2 line and install in line. Or, you may use a split jaw induction type meter and wrap exactly 10 turns of thermocouple wire around the center of the jaw.
   A. With the system power off, correct the ends of the 10 turn loop to obtain the current draw of the second stage heating component.
   B. Turn the system power on and read the current on the meter.
   C. Divide the meter reading by 10 to obtain the current draw of the second stage heating component.
   D. Turn off the system power, remove the coil leads from the thermostat, and move the system switch to OFF.
   E. Move the anticipator lever to the determined setting.
3. Replace the cover.

Additional adjustments, if necessary, may be made as follows:
- Heat cycles are too long - Set the adjustable heat anticipator to a slightly lower dial setting (1/2 division).
- Heat cycles are too short - Set the adjustable heat anticipator to a slightly higher dial setting (1/2 division).

SYSTEM OPERATION AND CHECKOUT
Use the chart below to check out all functions of your thermostat. It explains the operation of your thermostat with the switches in various positions. After satisfactory check-out, your thermostat is ready for operation. Set the switches to desired positions.

SWITCH POSITIONS

- Stage 2 Heat & Cool - SPOT
- Stage 1 Heat - 1 1/4 °F
- Stage 2 Heat - 1 °F
- Heat cycles are too short - Set the adjustable heat anticipator to a slightly higher dial setting (1/2 division).

SAFETY
This thermostat is a precision instrument, and should be handled carefully. Rough handling or distorting components could cause the thermostat to malfunction.

CAUTION: To prevent electrical shock and/or equipment damage, disconnect electric power to the system at the main fuse or circuit breaker box until installation is complete.

INSTALLATION
1. If replacing an existing thermostat, be sure to label the wires before they are removed. This will help with the installation of the new thermostat.
2. To determine the correct heat anticipator setting, use a digital AC ammeter by breaking the W2 line and install in line. Or, you may use a split jaw induction type meter and wrap exactly 10 turns of thermocouple wire around the center of the jaw.

IMPORTANT: This thermostat must have the “X” terminal (Transformer Common) connected in order for the first stage heat anticipator to work properly.

OPERATION AND SYSTEM CHECKOUT
2-Stage Heat Pump Mechanical Thermostat

WIRING DIAGRAM

TERMINAL MARKINGS

THERMAL DATA
Temperature Range: 95°F to 90°F (35°C to 32°C)
Differential: Stage 1 Heat = 1 °F
Stage 2 Heat = 1 °F
Cooling = 1 °F

ELECTRICAL DATA
Switch Rating: 24 volts AC (30 VAC max.)
Switch Action: Sealed Mercury Switches
Switch Rating: Stage 1 Heat & Cool - SPOT
Anticipator Rating: Stage 1 Heat = 24 volts AC fixed
Stage 2 Heat = 0.1 to 1.2 Amps adjustable
Cooling = 24 volts AC fixed

SELECTING THERMOSTAT LOCATION
The proper location of the room thermostat is most important to ensure that it will provide a comfortable home temperature. Observe the following general rules when selecting a location:
1. Locate it about 5 ft. above the floor with a free flow of air.
2. Install it on a partitioning wall, not on an outside wall.
3. Never expose it to direct light or radiation from lamps, sun, fireplaces, etc.
4. Avoid locations close to doors that lead outside, windows or adjoining outside walls.
5. Avoid locations close to radiators, warm air registers, or in the direct path of heat from them or lack of air circulation such as behind doors or in alcoves.
6. Make sure there are no pipes or duct work in that part of the wall chosen for the thermostat location.
7. Never locate it in a living room that is warmer or cooler than the rest of the home, such as a kitchen or hallways or on the opposite side of the wall of a cold or unused room.
8. The living or dining room is normally a good location, provided there is no cooking range or refrigerator on the opposite side of the wall.

TECHNICAL SERVICE
If you have any problems installing or using this thermostat, please read the instructions carefully. Technical Service is available through our Technical Service number: 800-222-8903 (in the USA only).

WARRANTY
Limited warranty: If this unit fails because of defects in materials or workmanship within one year of date of original purchase, Lux will, at its option, repair or replace it. This warranty does not cover damage by accident, misuse, or failure to follow installation instructions. Implied warranties are limited in duration to one year from date of original purchase. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Please return malfunctioning or defective units to the participating retailer from which the purchase was made, along with proof of purchase. Please refer to Technical Service section before returning thermostat.

This thermostat contains mercury in sealed glass vials. Do NOT dispose of this thermostat in the trash. Contact your local waste management authority for proper disposal instructions for mercury in a sealed glass tube.