

CONTROLS COMPANY

The Energy Control Company®

The 200 Series Thermostats are decorator designed and engineered for outstanding performance. All models feature Uni-Line's famous sealed-in-glass switch which requires NO LEVELING AND OPTI-MUM PROTECTION FROM SWITCH CONTAMINATION.

Models are available for 24 volt heating or cooling, millivolt heating, 2- or 3-wire zone, and with energy saving heating or cooling ranges.

A decorating wall plate is included with all models to cover old thermostat mounting marks. (See photo at right.)

CAUTION

THIS DEVICE SHOULD BE INSTALLED BY A QUALIFIED SERVICE TECHNICIAN WITH DUE REGARD FOR SAFETY, AS IMPROPER INSTALLATION COULD RESULT IN A HAZARDOUS CONDITION.

SPECIFICATIONS

Heat anticipation range
24 volt heating
Millivolt and 2-wire zonenone
Cooling and 3-wire zone. $\dots \dots 4700\Omega$, fixed
Temperature range
except
200-403 and 503
200-405 and 505
200-406 and 506
200-605
Dimensions
1-5/16" deep

INSTALLATION INSTRUCTIONS Shut off power equipment before servicing



LOCATING THERMOSTAT

Your thermostat is a sensitive instrument. For accurate temperature control and comfort, correct location is very important.

On *new* installations, the guidelines listed below should be followed as closely as possible. When replacing an old thermostat, install the new one in the same location unless these guidelines suggest otherwise.

1. Locate the thermostat on an inside wall about five feet off the floor where it is easy to install, service, and adjust. It should be in a room that is used often, such as a living room or family room.

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Electrical rating

24 volt models	30 VAC max.
	1.0 Amp max.
Millivolt models	
Differential	2°F (nominal)
Switch action	SPST
	except SPDT 200-901



- Do not install it where there are unusual heating conditions, such as in direct sunlight, or near a lamp, radio, television, radiator, register, fireplace, or other heat producing appliance. Also, check for hot water pipes within the wall, or a stove on other side of wall.
- 3. Do *not* locate in unusual cooling conditions, such as on an outside wall, on a wall separating an unheated room, or in drafts from stairwells, doors, or windows.

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INSTALLATION DATA

200 SERIES HEATING OR COOLING THERMOSTATS



INSTALLATION INSTRUCTIONS (Cont'd)

- Do not locate in a damp or humid area. This can shorten thermostat life due to rust or corrosion.
- 5. Do not locate where air circulation is poor, such as in a corner, alcove, or behind an opened door.
- 6. Do not install until all construction work and painting is complete.

MOUNTING THERMOSTAT

- 1. Remove old thermostat, if any. CAUTION: DO NOT LET WIRES FALL BACK OUT OF REACH INTO WALL CAVITY.
- 2. Remove cover (Figure 1-friction fit) from thermostat body by gripping at top and bottom and lifting from thermostat body. Use extreme care not to damage working parts.
- 3. Remove subbase from the thermostat body by loosening captive screws (see figure 3).
- 4. Pull approximately 3 inches of wire through the wall and thread the wire through the center of the subbase.
- 5. Hold the subbase level and against the wall so that the old holes are covered. Note: If thermostat will not cover all existing holes, the decorative wall plate should be used during assembly. It is not necessary to accurately level subbase, merely position for

appearance. With a pencil, mark the wall where the screws will attach the subbase to the wall. Use designated mount'ing holes only. Lay the subbase to one side. Drill the new mounting holes with a 3/32" drill bit.

- 6. Mount decorative wall plate (if needed) and subbase to wall using enclosed screws.
- 7. Connect wires to applicable terminal screws. (See schematic diagrams below.) Push excess wire back into hole.
- 8. Mount thermostat body on subbase using three captive screws (Figure 3). Captive screw in lower left hand corner of body is selfthreading into subbase. Use care not to overtighten.
- 9. Replace thermostat cover being careful to align "D" shaped dial shaft with matching shaped hole in hub of setting dial. Press cover on to the thermostat body.

Note: Some heating and/or cooling appliances are supplied with a time delay feature incorporated in the electrical circuit of the appliance controls. If the appliance is so equipped, there may be a delay of as much as three minutes, depending on the device used, after the thermostat calls for heat or cooling before the appliance is actually in operation.



SERVICE INSTRUCTIONS—CALIBRATION

The thermostat is accurately calibrated before leaving the factory, and no further calibration should be necessary. If however, it is necessary to recalibrate the thermostat, a qualified serviceman can proceed as follows:

- 1. Allow the thermostat to stay in the OFF position for at least 10 minutes until the internal temperature is stabilized. During this time the thermostat must not be influenced by heat from the hands or any other heat source.
- 2. Turn the temperature selector dial indicator to the actual room temperature measured using a reliable mercury thermometer.
- 3. Carefully remove the thermostat cover (noted under INSTALLATION).
- With small crescent wrench hold dial shaft (Figure 3), being careful that shaft does not rotate from position it was in when cover was removed.

Note: Hold wrench at angle so that steel tool does not interfere with magnet travel.

5. Keeping hands and breath away from bimetal temperature sensing element (Figure 3), turn calibration shaft in center of bimetal coil with screwdriver counterclockwise until magnet is away from glass switch when pressure on screwdriver is released.

- 6. Slowly rotate calibration shaft clockwise until magnet touches glass switch.
- 7. Thermostat is in calibration. Replace thermostat cover.

Note: If magnet is away from glass switch when thermostat cover is removed, omit step 5.

Heat Anticipation Adjustment

(Not applicable to cooling and zone models)

For average conditions, set the adjustable anticipator (upper left of thermostat body, Figure 3) to match the current rating of the primary heating control. Move anticipator approximately 1/2 division in direction indicated by arrows on the thermostat for longer ON cycles, or move lever in opposite direction for shorter ON cycles. Allow at least 24 hours to determine if setting provides satisfactory operation before making any further adjustments.

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