**INSTALLATION AND OPERATING INSTRUCTIONS**

### TX250 SERIES

**SMART TEMP ELECTRONIC THERMOSTAT**

*Easy as 1–2–3*

Complete, Easy To Read Programming And Installation Instructions Inside

**LUX PRODUCTS CORPORATION • Philadelphia, PA 19112**

**WARNING:** Use Energizer® or DURACELL® Alkaline Batteries Only. Energizer® is a registered trademark of Energizer Battery Company, Inc. DURACELL® is a registered trademark of The Gillette Company, Inc.

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**IMPORTANT!**

Thank you for your confidence in our product. To obtain the best results from your investment, please read these instructions and acquaint yourself with your purchase before installing your new thermostat. Then follow the installation procedures, one step at a time. This will save you time and minimize the chance of damaging the thermostat and the systems it controls. These instructions may contain information beyond that required for your particular installation. Please save for future reference.

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**FEATURES**

- The TX250 can be used with most 24 volt gas, oil, or electric heating and air conditioning systems, single-stage heat pumps or gas millivolt heating systems. It cannot be used with 120 volt heating systems or multistage heat pumps. Ask your dealer for other LUX thermostats to control those systems.

- The TX250 is programmable. There are four programming periods per day. Each period can be programmed separately.

- Easy to use Speed Slide.

- You can use the built-in time/temperature programs, or alter them to suit your schedule. The TX250 provides separate programming for weekdays and weekends — for both heating and cooling. You can override the programmed temperatures for as little as one programming period or for an entire vacation.

- In cool weather, when the system switch is set to HEAT, the TX250 may maintain cooler “set back” room temperatures to save energy. It will then change to warmer “comfort” settings — automatically, at specified times during the day.

- In warm weather, when the system switch is set to COOL, the TX250 may maintain warmer “set back” room temperatures to save energy. It will then change to cooler “comfort” settings — automatically, at specified times during the day.

- A liquid crystal display shows time, day of the week, and room and set temperatures.

- Temperature swing adjustment lets you fine-tune your system for maximum comfort and economy.

- A 2 or 5-minute minimum off time in COOL prevents your air conditioning system from being damaged.

- Two Energizer® or DURACELL® “AA” alkaline batteries (not included) are used to retain your time and temperature programs.

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**INSTALLATION**

Please read all instructions carefully before beginning installation.

**TOOLS REQUIRED**

- #1 Phillips screwdriver (small)
- Drill with 3/16-in. (4.8mm) bit

**THERMOSTAT LOCATION**

On replacement installations, mount the new thermostat in place of the old one unless the conditions listed below suggest otherwise. On new installations, follow the guidelines listed below.

1. Locate the thermostat on an inside wall, about 5 ft. (1.5m) above the floor, and in a room that is used often.
2. Do not install it where there are unusual heating conditions, such as: in direct sunlight; near a lamp, radio, television, radiator, register, or fireplace; near hot water pipes in a wall; near a stove on the other side of a wall.
3. Do not locate in unusual cooling conditions, such as: on a wall separating an unheated room; or in a draft from a stairwell, door, or window.
4. Do not locate in a damp area. This can lead to corrosion that will shorten thermostat life.
5. Do not locate where air circulation is poor, such as: in a corner or an alcove; or behind an open door.
6. Do not install the unit until all construction work and painting has been completed.
7. This thermostat does not require leveling.

**REMOVING THE OLD THERMOSTAT**

Switch electricity to the furnace and air conditioner OFF, then proceed with the following steps.

1. Remove cover from old thermostat. Most are snap-on types and simply pull off. Some have locking screws labeled before they are removed. When removing thermostat. Wires must be labeled before they are removed. Wires from their terminals, ignore the color of the wires since these may not comply with the standard.
2. Note the letters printed near the terminals. Attach labels (enclosed) to each wire for identification.
3. Loosen all screws on the old thermostat and remove it from the wall.

**MOUNTING THE TX250 ON THE WALL**

1. Strip insulation 3/8 in. (9.5mm) from wire ends and clean off any corrosion.
2. Fill wall opening with non-combustible insulation to prevent drafts from affecting the thermostat.
3. Cup and hold thermostat body and left tab in place with left hand. Separate tabs with right hand.

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If you are mounting the base to a soft material like plasterboard or if you are using the old mounting holes, the screws may not hold. Drill a 3/16-in. (4.8mm) hole at each screw location, and insert the plastic anchors provided. Then mount the base as described below.

**ATTACHING WIRES**

1. Remove the used batteries.
2. Cup and hold thermostat body and left tab in place with left hand. Separate tabs and/or air conditioning system. If this is the first time you are installing batteries, the thermostat will display “SUN ... alternately with the time. To correct the display, see “Setting the TIME and DAY,” after you set the programs.
3. Remove fresh batteries from their carton.
4. Hold the base against the wall, with the wires coming through wherever it is convenient for wiring. Route the wires to the terminal block. Position the base for best appearance (to hide any marks from an old thermostat). Attach the base to the wall with the two screws provided.

**CAUTION**

Do not allow wires to touch each other or parts on thermostat. Wires must be trapped between black spacer and brass terminal. Also, be sure to securely tighten all 7 electrical terminal screws.

**WARNING:** If you have an electric system and the blower does not operate after installation, find the electric/gas heat jumper on the back of the body. Move the jumper to the ELEC position.

**NOTE**

If you are replacing a Honeywell thermostat with a clock wire “C”, connect wire “B” to terminal “RH”.

**NOTE**

If both “Y” and “C” wire are present, tape off “C” wire.

**NOTE**

If both “Y” and “C” wire are present, tape off “C” wire.

**WIRING DIAGRAMS**

**HEATING SYSTEMS**

**COOLING SYSTEMS**

**HEATING / COOLING SYSTEMS**

4- or 5-WIRE WITH ONE TRANSFORMER

**HEATING / COOLING SYSTEMS**

5- or 6-WIRE WITH TWO TRANSFORMERS

**INSTALLING BATTERIES/MAINTENANCE**

The TX250 requires batteries to operate your furnace and retain its programming in memory. Replace the batteries when the REPLACE indicator appears in the display or at least once a year.

1. Remove fresh batteries from their carton.
2. Cup and hold thermostat body and left tab in place with left hand. Separate tabs with right hand.
3. Remove the used batteries.
4. Install two new Energizer® or DURACELL® “AA” size alkaline batteries in the battery compartment. Observe the polarity marking shown in the compartment. Place body back on wall.

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5. Align the top of the body onto the base and press together.

**PROGRAMMING CHART**

<table>
<thead>
<tr>
<th>DAY</th>
<th>PERIOD</th>
<th>HEAT</th>
<th>COOL</th>
</tr>
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<tbody>
<tr>
<td>MON.</td>
<td>MORN.</td>
<td>TIME</td>
<td>TEMP.</td>
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<tr>
<td>THRU</td>
<td>DAY</td>
<td></td>
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<tr>
<td>FRI.</td>
<td>EVE</td>
<td></td>
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<td>SAT.</td>
<td>NIGHT</td>
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<tr>
<td>and</td>
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<td>SUN.</td>
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The TX250 alternately displays the current time and the room temperature. It also displays the day of the week and the currently active program period that is controlling the temperature: MORN, DAY, EVE, or NITE. The set point temperature will appear in the right side of the display. In the winter, set the system switch to HEAT to control your heating system. In the summer, set the switch to COOL to control your air conditioner. In spring and fall or when windows are open, you can set the system switch off.

PROGRAMMING THE TX250
You can change any preset times and/or temperatures to suit your schedules for the weekday and weekend programs. Each period (Morning, Day, Evening, and Night) is programmed for HEAT and for COOL.

To program your TX250:
1. Slide the Speed Slide to SET WEEKDAY PROGRAM. To program the weekdays SET WEEKDAY. With Slide on SET WEEKDAY PROGRAM, you will see the display pictured above.
2. Push in the RESET key. This will clear the TX250 for changes to take effect.
3. Select HEAT to program the TX250 for controlling your heater.
4. Select COOL to program the TX250 for controlling your air conditioner.

To change the start time for MORN:
- Press the UP/DOWN button on the face of the thermostat for the changes to take effect.
- To move to MORN:
  - To change the start time for MORN:
    - To change the start time for MORN:
      - To change the start time for MORN:
        - To change the start time for MORN:
          - To change the start time for MORN:

To set the current time: The (e.g. “12:00”) will be flashing.

TEMPERATURE OVERRIDE AND TEMPERATURE HOLD
These features let you change the current Set Temperature without changing the programs stored in your thermostat’s memory.

TEMPORARY TEMPERATURE OVERRIDE
- Press UP/DOWN to change the current temperature setting. The OVERRIDE indicator appears on display.
- The OVERRIDE feature will be automatically canceled at the start of the next program period.
- To cancel OVERRIDE prior to next program period press UP/DOWN until original set temperature appears. OVERRIDE indicator will disappear from display.

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