**INSTALLATION AND OPERATING INSTRUCTIONS**

**EcoStat® TH10 Heating Only Mercury FREE Manual Thermostat**

LUX PRODUCTS CORPORATION
Philadelphia, PA 19112

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**IMPORTANT!**
Please read all instructions carefully before beginning installation and save for future reference. Before removing any wiring from your existing thermostat, the wires must be labeled with their terminal designations. Ignore the color of the wires since they may not comply with any standard.

Thank you for your confidence in our product. To obtain the best results from your investment, please read these instructions thoroughly. You should become fully acquainted with this thermostat before attempting to use it for the first time. Follow the installation procedures carefully, and one step at a time. This will save you time and minimize the chance of damaging either the thermostat or the systems that it controls. These instructions may contain information beyond that required for your particular installation. Please save these instructions for future reference.

**COMPATIBILITY**
This mechanical thermostat can be used with most 2-wire, single-stage 24 volt or gas heating systems. It cannot be used with cooling systems, heat pumps, electric furnaces, 3 wire zone valves, line voltage (120/240 volt) heating systems, or Millivolt systems. Ask your dealer for other LUX thermostats to control those systems.

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**FEATURES**

- Push Button Back Light
- Glow-In-The-Dark Dial Numbers
- Mode Switch
- **Large Easy To Use Mode Switches**
- Soft Rubber Set Temperature Ring
- **Set Temperature Ring**
- **Selector Ring**

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**US Patent USP D471,572**

**SELECTING A LOCATION**
On replacement installations, mount the new thermostat in place of the old unit 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 locate where air circulation is poor, such as in a corner or on an alcove, or behind an open door.
3. Do not install it where there are unusual heating conditions, such as: in direct sunlight; near a lamp, television, radiator, register, or fireplace; near hot water pipes in a wall; near a stove on the counter; near a draft from a stairwell, door, or window.
4. Do not locate in a damp area. This can lead to corrosion that may shorten thermostat life.
5. Do not locate in an area that is likely to have windows open, you can set the switch OFF. In HEAT mode, turn the front thermostat dial to the desired temperature setting.

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**US Patent No:**

**SELECTING A LOCATION**

1. Turn OFF the electricity to all heating and cooling components. Do not turn the electricity back on until all work is completed.
2. Remove the cover and front portion of your old thermostat to expose the wiring connections.
3. Write down the letters printed near each wire terminal that is used, and the color of the wire that is connected to it. Using the enclosed labels, attach a label to each of your wires so that the letter matches the mark on your existing thermostat.
4. When they are all labeled, carefully remove the wires one at a time, making sure that they do not fall back inside the wall. Do not allow any of the bare wire ends to touch each other, or any parts of the thermostat.
5. Loosen all of the screws on the old thermostat and remove it from the wall.

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**INSTALLATION**

1. Strip insulation leaving 3/8 in. (9.5mm) bare wire ends and clean off any corrosion.
2. Fill wall opening with non-combustible insulation to prevent drafts from affecting the thermostat.
3. The Wall/Trim Plate is optional, however its usage is recommended.
4. Remove the front trim ring from the thermostat by pulling it straight outwards.
5. If there are no existing mounting holes that are able to be reused, hold the Trim Plate level against the wall wire with the “UP” markings up, and mark the “outer” two oval mounting holes on the right and left side. **NOTE:** If you are not using the Trim Plate, you can mark the holes for the thermostat using two small inner holes on the right and left of the Trim Plate, which line up with the thermostat mounting holes.
6. If you are mounting the base to a soft material like plasterboard, the screws alone may not hold. Drill a 3/16 in. (4.8mm) hole at each screw location, and insert the plastic anchors provided into the wall. If you are mounting to wood or similar substance, the screws may be used alone without the plastic anchors.
7. First, feed the wires through the large middle hole in decorative wall plate (if used) and then through the square lower hole near the bottom of the thermostat’s Sub-Base.
8. Referring to your earlier notes from removing your old thermostat, and the electrical diagrams in this manual, attach the wires to the terminal screws. Make sure bare metal wires do not touch each other. The wire connector screws on the Sub-Base may need to be loosened prior to inserting any wires. When all wiring is complete, ensure that every screw is securely tightened.

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**TOOL REQUIRED**

- Phillips Screwdriver
- #1 Slotted Screwdriver
- Wire Stripper / Cutter
- Drill with 3/16 in. (4.8mm) bit

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**WIRING INFORMATION**

- Complete heating and/or cooling system wiring can be found in the WIRE IDENTIFICATION AND WIRING SCHEMATIC section of this instruction sheet. The schematics show proper component information for brand new installations or for unlabeled wires.

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**SETUP**

The only item that will need to be tailored to your system is the Heat Anticipator. If you are replacing an old mechanical thermostat, find the Anticipator setting on the old thermostat, and set the new thermostat to the same value. This can be done by carefully sliding the silver metal pointer, shown here, over desired number printed on the Anticipator scale. If an old Anticipator setting cannot be determined, look on the gas control valve on your furnace, and find either the Anticipator Value or a Current Rating. This will be the value to use for the Anticipator setting. If you cannot find either of these numbers, set it to 0.6 initially to start with. During heating season, your furnace should operate about five times an hour. If adjustments are necessary, move heat anticipator pointer slightly and recheck. A lesser value will cause your heater to cycle more frequently, and a larger value will cause it to cycle less frequently.

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**OPERATION**

There is a mode switch on the front that has two positions: **HEAT** and **OFF**. In the winter, set the system switch to **HEAT** to control your heating system. In the spring, summer and fall, or when the windows are open, you can set the switch **OFF**. In **HEAT** mode, turn the front thermostat dial to the desired temperature setting.

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**TECHNICAL ASSISTANCE**

If you have any problems installing or using this thermostat, please carefully and thoroughly review the instruction manual. If you require assistance, please contact our Technical Assistance Department at 856-234-8803 during regular business hours between 8:00AM and 4:30PM Eastern Standard Time, Monday through Friday. You can also receive technical assistance online anytime day or night at http://www.luxproducts.com. Our web site offers you answers to the most common technical questions, and also permits you to email your questions to our technical support staff at your convenience.

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**WARRANTY**

Limited Warranty: If this unit fails because of defects in materials or workmanship within three years of the 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. Impulated warranties are limited in duration to three years from the 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 contact your local building department or authority for instructions regarding your specific legal rights and you may also have other rights which vary from state to state. Applicable in the U.S.A. and Canada only.

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**MERCURY WARNING AND RECYCLING NOTICE:**
Mercury is considered to be a hazardous material. If this product is replacing a thermostat that contains mercury in a sealed tube, contact your local waste management authority for instructions regarding recycling and proper disposal. It may be unlawful in your state to place it in the trash.
WIRING DIAGRAM NOTES:

1. If replacing a Honeywell TM-11, tape off the "R" wire. Connect the "B" wire to the "RH" terminal.
2. If replacing a thermostat that has a clock wire labeled as "C," tape off this wire and do not connect it to this thermostat.
3. If "Y" and "C" wires are both present, then "C" is a common wire, tape off this wire and do not connect it to this thermostat.
4. If a "B" wire in your system is a common wire, tape off this wire and do not connect it to this thermostat.

NOTES DU DIAGRAMME DE CÂBLAGE :

1. Si vous remplacez un modèle Honeywell TM-11, couvrez le fil « R ». Brancher le fil « B » à la borne « RH ».
2. Si vous remplacez un thermostat à fil d'horloge portant la mention « C », couvrez ce fil et ne le branchez pas à ce thermostat.
3. Si vous avez les fils « Y » et « C », alors le « C » est un fil commun, couvrez-le et ne le branchez pas à ce thermostat.
4. Si un fil « B » de votre système est un fil commun, couvrez ce fil et ne le branchez pas à ce thermostat.

NOTAS DEL DIAGRAMA DEL CABLEADO:

1. Si reemplaza un Honeywell TM-11 desprenda el cable "R". Conecte el cable "B" a la terminal "RH".
2. Si reemplaza el termostato que tiene un cable de reloj marcado como tipo "C," desprenda este cable y no lo conecte a este termostato.
3. Si los cables "Y" y "C" están presentes, entonces "C" es un cable normal, desprenda y no lo conecte a este termostato.
4. Si un cable "B" en su sistema es un cable normal, desprenda y no lo conecte a este termostato.