**INSTALLATION AND OPERATING INSTRUCTIONS**

**TX1500 SERIES**

**SMART TEMP® ELECTRONIC THERMOSTAT**

**Features**

- The TX1500 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 TX1500 is programmable. There are four programming periods per day. Each period can be programmed separately.
- Easy to use Lux Speed Dial®
- You can use the built-in time/temperature programs, or alter them to suit your schedule. The TX1500 provides separate programming for weekdays, Saturday and Sunday — for both heating and cooling. You can override the programmed temperatures for as little as one programming period for an entire vacation.
- In cool weather, when the system switch is set to HEAT, the TX1500 will maintain cooler “set back” room temperatures to save energy. It will then change to warmer “comfort” settings — all automatically, at specified times during the day.
- In warm weather, when the system switch is set to COOL, the TX1500 will maintain warmer “set back” room temperatures to save energy. It will then change to cooler “comfort” settings - all automatically, at specified times during the day.
- A large liquid crystal display shows time, day of the week, and room and set temperatures. It will remind you when the filter should be changed in your blower.
- Temperature swing adjustment lets you fine-tune your system for maximum comfort and economy.
- 5/2 Minute Selectable Minimum Run/Off Time for Short Cycle/Compressor Protection
- Two Energizer® or DURACELL® "AA" alkaline batteries (not included) are used to retain your time and temperature program and to light the display.

**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 on the side. These must be loosened.
2. Note the letters printed near the terminals. Attach labels (enclosed) to each wire for identification. Remove and label wires one at a time. Make sure the wires do not fall back inside the wall.
3. Loosen all screws on the old thermostat and remove it from the wall.

**MOUNTING THE TX1500 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. Press up on the button on bottom of thermostat and swing the body away from the base and up to remove the body from the base.

**CAUTION**

Read instructions carefully before removing any wiring from existing thermostat. Wires must be labeled before they are removed. When removing wires from their terminals, ignore the color of the wires since these may not comply with the standard.

**CAUTION**

Be careful not to drop the body or disturb electronic parts. Leave the cover closed while the body is being removed from the base.

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ATTACHING WIRES

4. Hold the base against the wall, with the wires coming through wherever it is convenient for wiring. Route the wires to below 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 tighten securely all 7 electrical terminal screws.

WIRING DIAGRAMS

INSTALLING BATTERIES/MAINTENANCE

The TX1500 requires batteries to operate your furnace and retain its programming in memory and to light the display. Replace the batteries when the REPLACE indicator appears in the display or at least once a year.

REPLACE BATTERIES WHEN INDICATOR APPEARS OR AT LEAST ONCE A YEAR.

1. Remove fresh batteries from their carton.
2. Remove body of thermostat as described at bottom of first column.
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.

WARNING: Use Energizer® or DURACELL® Alkaline Batteries Only.

5. Hook the top of the body onto the base, swing the body down and snap the body onto the base.

Installation is now complete. Be sure to turn the power back on to your heating and/or air conditioning system. If this is the first time you are installing batteries, the thermostat will display “SUN 12:00 AM”. Within 90 seconds the thermostat will begin to display the room temperature alternately with the time. To correct the display, see “Setting the TIME and DAY,” after you set the program.

TECHNICAL SERVICE

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.

WARRANTY

Limited Warranty: If this unit fails because of defects in materials or workmanship within three years of date of original purchase, LUX Products Corporation 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 three years 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 purchased. Purchaser assumes all risks and liability for incidental and consequential damage resulting from installation and use of this unit. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. Applicable in the U.S.A. only.

These diagrams below are provided for new installations or unfrenched wires.
OPERATION

The TX1500 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, EVE, or NIGHT.

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.

Setting the FAN switch to AUTO automatically runs your system’s fan during heating and cooling. Setting the FAN switch to ON runs your system’s fan continuously even without heating or cooling.

THE BUILT-IN ENERGY STAR® PROGRAMS

Push in the RESET key. This sets the built-in heating and cooling programs. To review the built-in programs, rotate the dial to SET WEEKDAY / SATURDAY / SUNDAY PROGRAM.

You can use the built-in programs as shown, or change them as you wish. Each day is divided into four periods. Each period has its own starting time and temperature.

The dial must be in the RUN position to close the door.

PROGRAMMING THE TX1500

You can change any preset times and/or temperatures to suit your schedules for the weekday, Saturday and Sunday programs. Each period (Morn, Evening, and Night) is programmed for HEAT and for COOL.

To set current time. The (e.g. 12:00) will be flashing. To prevent tampering with set programs. The sequence of keys to lock and unlock the program:

PROGRAM LOCK

To change the FILTER Usage Monitor limit

To disable the FILTER Usage Monitor set the limit to 0 hours

TEMPERATURE SWING

A thermostat works by turning your heating or cooling system on and off whenever the room temperature varies a certain number of degrees from the set-point temperature. This variation is the “swings.” Your system should cycle on about 3 to 6 times per hour. A smaller swing number increases the number of cycles, so room temperature is more constant. A larger swing number decreases the number of cycles, to save energy in most cases.

WARNING: Making these changes will require you to reset the thermostat. Copy any of your customized programs onto the blank chart. This will be your reference to re-enter the programs afterwards.

TEMPERATURE OVERRIDE AND TEMPERATURE HOLD

These features let you change the current set temperature without changing the programs stored in your thermostat memory.

To change current day.

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.

5 MIN/2 MIN MINIMUM ON/OFF TIME

Your thermostat has an internal timer built in to protect your compressor. The timer forces a minimum on/off time of 5 minutes. You may change this minimum on/off time to 2 minutes. To accomplish this, remove the jumper labeled 5/2 MIN. You must press the small reset button on the face of the thermostat for the changes to take effect.