Thank you for your confidence in our product. To obtain the best results please read these instructions and acquaint yourself with your product.

**COMPATIBILITY**

This programmable thermostat is compatible with Single or Double pole, 120/240 VAC, line-voltage heating systems up to 15 Amps. The heating wattage rating is 1800 Watts (Resistive) for 120 VAC, and 3600 Watts (Resistive) for 240 VAC. This thermostat can also be used with 120/240 VAC line-voltage Hydronic (hot water) heating systems with a maximum output of 3600 Watts. This thermostat cannot be used with: cooling systems, typical 24 volt DC line-voltage wiring. If improperly handled, there is a risk of electric shock.

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

**BATTERIES AND MAINTENANCE**

The batteries should be replaced at LEAST once per year, or sooner if the LOW BATT battery symbol appears in the lower left portion of the display screen. To replace the batteries in the thermostat, open the front door of the unit. The battery compartment is located just below the rotary dial and pull button. Push the battery compartment out, holding with the top edge. Remove the used batteries from the battery tray and discard according to local disposal regulations.

Install two new Energizer® or DURACELL® "AA" size alkaline batteries into the battery tray. Observe the polarity markings shown in the battery compartment before proper installation. When finished, reinstall the battery compartment by first seating the battery into its alignment pins, and giving the top in towards the thermostat to snap the back into place.

**TECHNICAL ASSISTANCE**

If you have any problems installing or using this thermostat, please carefully and thoroughly review the instruction manual. If you require assistance during installation, please call Lux Products customer service at 856-234-8803 during regular business hours between 8:00AM and 4:30PM EST. Our customer service department can assist you with 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 the original purchase, Lux will, at its option, repair or replace it. This warranty does not cover the cost of installation or removal of the unit. If the warranty repair or replacement is not made within a reasonable time, you may have the right to cancel the contract, which varies from state to state. Applicable in U.S.A. and Canada only.

**MERCIURY WARNING AND RECYCLING NOTICE**

Mercury is considered to be a hazardous material. If this product is replaced, please contact your local waste management authority for instructions regarding proper disposal. This product contains mercury which may vary from state to state. For additional information contact the U.S. Environmental Protection Agency at 800-28-EPA-00.

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**INSTALLATION AND OPERATING INSTRUCTIONS**

**LUX ELV4d Programmable Heating Thermostat**

**Single Pole and Double Pole Line Voltage**

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### FEATURES

- LCD Display
- Temperature Sensing Buttons
- HOLD, NEXT, and RST Buttons
- Battery Compartment
- Battery Memory Storage
- 3 Year Warranty
- Programmable thermostat
- Attractive Design
- Programmable thermostat
- 1/2 Day Programming
- 4 Programs Per Day

### INSTALLATION

Please read all of these instructions carefully before beginning installation. Save them for future reference.

1. **WARNING:**
   - For applications such as baseboard electric heat (resistive), the maximum load is 15 Amps, from a 20 Amp circuit breaker.
   - For heat applications such as a hot water circulator pump (inductive), the maximum load is 1/4 HP at 120 Volts, and 1/2 HP at 240 Volts.
   - Do not use with circuit breakers that are rated higher than 20 Amps.

2. **WARNING:**
   - Maximum load for this thermostat MUST NOT exceed 1800 Watts (15 Amps), or 3600 Watts at 240 Volts (15 Amps), otherwise a potential fire hazard exists.

3. Mounting Location:
   - Install a vertical electrical switch box for the mounting thermostat. The switch box should meet the National Electrical Code (NEC) (Article 420) plus the local building codes and local ordinances for your particular area.

4. **CAUTION:**
   - Disconnect power before removing your old thermostat. (If applicable.) Double pole thermostats must be disconnected on both sides. While disconnecting the power, it is important to avoid contacting any of the conductors at the same time. A small amperage to be switched.

5. Remove the front portion of the thermostat by carefully pressing the button at the bottom of the thermostat and swinging the back up away from the wall.

6. NOTE:
   - Do not place the thermostat directly above any of the heating elements.

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### OPERATING INSTRUCTIONS

**SET DAYTIME PROGRAM**

Press and hold the SET DAYTIME position. The day of the week will start flashing on the display. With the day flashing, press the UP button, or DOWN button, to the desired day of the week. Press the NEXT button; this should cause the time to start flashing and the day to remain flashing. Using the UP button, or DOWN button, adjust the clock to the desired time. The clock digits will increment rapidly if either the UP or DOWN button is held in the pressed position.

**TEMPERATURE OVERCLOCK:**

A Temperature Override occurs in Run mode, anytime the user adjusts the heating SET or THERMOSTAT temperature to a temperature higher than the current heating temperature for is that day and time. When the thermostat is in an Override condition, the "HEAT" indicator will be continuously flashing on the display screen. The thermostat will maintain thermal control using this new set temperature. Override condition can only be reached by pressing the UP button to the desired set temperature value.

**ADVANCED FEATURES**

**SWING SETTING:**

A thermostat works by turning your heating system on and off whenever the temperature at the room temperature sensor reaches the ON period. The amount of this variation is called the "swing." Your system should cycle on about 15 to 30 times per hour. The swing setting will appear in the temperature portion of the screen, along with the swing text. The swing setting determines the minimum length of time the thermostat must sense the heat before it can change its state. A larger swing number decreases the number of cycles per hour, so the room temperature is more precise and constant. A larger swing number decreases the number of cycles per hour, but causes more rapid cycling of the heating equipment. The swing setting is determined by the thermostat, and controls the minimum length of time that the thermostat must remain on steady. Using either the UP or DOWN button, adjust the swing setting to the desired value. With the swing flashing, press the UP button to increase the swing setting, or press the DOWN button to decrease the swing setting. To accept the setting and return to normal Run mode, rotate the dial away from RUN.

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**Wiring Diagram Note:**

This Double Pole thermostat model may be used in either Single Pole, or Double Pole wiring configurations. Only the LINE 1 (IN) and LOAD 1 (OUT) terminals are switched during normal temperature cycling. If this thermostat is used in a Single Pole configuration, the unused L2 LINE (IN) and L2 LOAD (OUT) wire ends must be securely insulated using the additional wire connectors provided.

**Fire Hazard Warning:**

DO NOT use the supplied wire nuts if you are connecting this thermostat to aluminum wiring. All connections made to aluminum conductors must be made using approved CO/ALR solder-less wire connectors.

**Note du Diagramme de câblage:**

Ce modèle de thermostat bipolaire peut être utilisé dans des configurations de câbles unipolaires ou bipolaires. Seules les bornes de la LIGNE 1 (ENTRÉE) et de la CHARGE 1 (SORTIE) sont branchées lors d'un cycle de température normal. Si ce thermostat est utilisé dans une configuration unipolaire, les extrémités de fils L2 LIGNE (ENTRÉE) et L2 CHARGE (SORTIE) inutilisées doivent être bien isolées en utilisant les raccords supplémentaires fournis.

**Avertissement de danger d'incendie :**

N'utilisez PAS les serre-fils fournis si vous branchez ce thermostat à un câblage d'aluminium. Tous les raccords aux conducteurs en aluminium doivent utiliser des raccords sans soudure approuvés CO/ALR.

**Nota del diagrama del cableado:**

Este modelo de termostato de doble polo puede usarse con configuraciones de cableado con polo sencillo o doble. Sólo las terminales LÍNEA 1 (ENTRADA) y CARGA 1 (SALIDA) se conectan en el ciclo normal de temperatura. Si este termostato se usa con una configuración de cableado con polo sencillo, los extremos de los cables de la LÍNEA L2 (ENTRADA) y CARGA L2 (SALIDA) que no se utilicen deben aislar adecuadamente con la ayuda de los conectores de cable adicionales que vienen incluidos.

**Advertencia sobre riesgo de incendio:**

NO use las tuercas de alambre suministradas si usted está conectando el termostato a un cableado de aluminio. Todas las conexiones a conductores de aluminio deben hacerse usando conectores de cable sin soldadura que tengan la aprobación CO/ALR.