This thermostat can be used with most 24-volt: gas, oil, Millivolt, electronic heating and cooling systems, including heating with an a/c (heat pump) element. It cannot be used with: 120/240 volt heating elements (without a transformer), or on heat pumps that have two compressor stages (Y2). Ask your dealer for other LUX thermostats to control those systems.

**SYSTEM COMPATIBILITY:**

This thermostat is the preferred choice for most systems. It is simple to use and to install. It can replace existing thermostats with or without a demand for heating or cooling. It cannot be used with: 120/240 volt heating elements (without a transformer), or heat pumps that have two compressor stages (Y2). Ask your dealer for other LUX thermostats to control those systems.

**CAUTIONS AND WARNINGS:**

- The thermostat requires batteries to operate and failure or substandard performance of the batteries may impair or prevent the correct operation of the thermostat. Use Duracell® or Energizer® alkaline batteries ONLY for all LUX thermostats requiring batteries. BE SURE TO MOVE THE BATTERIES AT LEAST ONCE A YEAR, whenever your FURNACE or LO BATT indication is displayed. Beware: If the thermostat is not set to “Manual” non-programmable mode, all 4 switch positions will act like RUN, except the “AIR FILTER” position. The options for each item are changed using the UP or DOWN buttons.
- **HEAT / OFF / COOL, SYSTEM MODE SWITCH:** Set this switch to HEAT to control your heating system, and COOL to control your cooling system. The OFF position will disable both the heating and cooling units.
- **AUTO / ON, FAN MODE SWITCH:** When in AUTO, the blower fan (if present in your system) will cycle on and off only while heating or cooling. In the ON position, the blower fan will run constantly at all times with or without a demand for heating or cooling.
- **MULTI-FUNCTION, SET SLIDE SWITCH:** This provides easy access to common settings, and should always remain in RUN (if applicable) specific items being monitored. NOTE: when thermostat is set to “Manual” non-programmable mode, all 4 switch positions will act like RUN, except the “AIR FILTER” position.
- **UP / DOWN BUTTONS:** The UP and DOWN buttons are used to control the set temperature, or adjust any other set-point screen items. For instance, an item in the heating system can currently be adjusted.
- **HOLD BUTTON:** This button activates and deactivates the maximum temperature Hold feature, which maintains a fixed set temperature indefinitely without following a program routine.
- **EMER BUTTON:** For Heat pump systems: This button activates Emergency Heat mode and prevents the outdoor unit from running. For conventional (non-Heat Pump) systems, this button will have no effect in Normal Run mode.

**SETUP OPTIONS:**

- **INSTALL BATTERIES INTO THERMOSTAT:** Install two brand new Energizer® or Duracell® AA-size alkaline batteries, into the thermostat’s battery compartment. Ensure the batteries are installed in the proper direction.
- **ACCESS THE SETUP MENU:** The thermostat includes a setup menu to customize the thermostat. To access the setup menu, press and hold the EMER button for approximately 3 seconds until the setup menu appears. The menu will display the following list of setup options:
- **ITEM #01 (CLK = CLOCK FORMAT):** [12h, default] This displays the clock times using 12 hour format (example 1:00 PM). [24h] This displays the clock times using the military-time format (example 2:00 AM/PM without AM or PM).
- **ITEM #02 (TFT = TEMPERATURE SCALE):** [F, default] Shows all temperature values in Fahrenheit. [C] Shows all temperature values in Celsius.
- **ITEM #03 (PROGRAMMING STYLE):** [5/2-Day, default] This style uses a weekday program routine for Monday, Tuesday, Wednesday, Thursday, Friday, and a second weekend program routine for Saturday and Sunday. [7-Day, default] This style uses a unique program routine for each of the 7 days in the week. [Manual Non-Programmable Style] In this setting, there are no program routines for the thermostat to follow and the temperature control will be set only by the UP and DOWN buttons on the front panel.
- **ITEM #04 (PERD = PERIOD QUANTITY):** [4p, default] Thermostat uses four periods per day (called MORRN, DAY, EVE, and NITE). [2p] The thermostat uses two periods per day (called DAY and NITE).
- **ITEM #05 (EAC = EARLY/RECOVERY):** [Off, default] Program Set Temperature values start to occur at the exact period times. [Early] Recovery begins from the temperature set point from the NITE to the MORRN period, and when changing from the DAY to the EVE period. The thermostat calculates how long it takes for your home to recover from a setback on a daily basis, and turns on ahead of time in order to reach the target set point of the next upcoming program period by the period’s start time. While in recovery, a button will be shown on the display screen.
- **ITEM #06 (SYSTEM MODE):** [FURN, default] This is for the majority of heating systems that are not Heat Pumps, such as a gas furnace or hot water boiler. [HP] Use this if you have a Heat Pump system, which uses the outdoor unit as the primary heat source and may also contain a electric heating element as a backup heat source. When set to "HP", ensure that you have also set the Gas/Electric circuit board option to “ELEC”, as described in the “COMPLETE THE INSTALL” section.
- **ITEM #07 (DAYL = DELAY TIME):** [5, default] Thermostat waits 5 minutes before turning the system back on after it was last run. This internal delay prevents rapid cycling and provides equipment protection. The 5 minute setting is fine for most applications. [2] Same operation as above but reduced to 2 minutes between state changes.
- **ITEM #08 (TEMPERATURE SWING):** A thermostat works by turning your heating or cooling system off and on whenever the room temperature varies from the desired set-point temperature. The amount of this variation is called the swing. Use the UP/DOWN buttons to change the number value between 1 and 9. Generally your system should cycle on about 3 to 5 degrees per hour. A smaller swing number makes the system cycle more frequently, so the room temperature is more precise and constant. A larger swing number will make the system remain on for a longer duration each time and decreases the number of cycles per hour.
- **ITEM #09 (STAGE-2 OFFSET):** [2, default] This setting is adjusted as a number from 0 to 9. Set to 2 (ZERO), the second heating stage is completely disabled while in regular Heat mode (however Emergency Heat mode will still function for heat pump configurations). An Offset value from 1 to 9 degrees will determine the number of degrees from the set point that will be required for the second heating stage to turn on. This setting can be used to conserve energy in situations where the second heating stage is more costly to operate when compared to the first stage.

**BASIC HEATING AND COOLING OPERATION: **

Basic operation of your heating or cooling system can be obtained with the Set Slide Switch in the Run position and choosing either HEAT or COOL on the System Mode switch. The temperature can be adjusted using the UP or DOWN buttons. When the thermostat is first powered up, it will follow a default temperature routine that is preset from the factory. Alternatively, you can use the HOLD button to maintain a fixed Set Temperature.

**DOWNLOAD FULL INSTRUCTION MANUAL FROM OUR WEBSITE:**

This sheet contains basic installation steps and setup instructions. There are additional topics covered in greater detail, such as adjustable set temperature limits, keypad lockout, and the air filter monitor, in the full version of the instruction manual for this thermostat. A full pdf version of this manual can be downloaded at http://www.luxproducts.com. Click on SUPPORT, then INSTRUCTION MANUALS.