

## SKY-6601

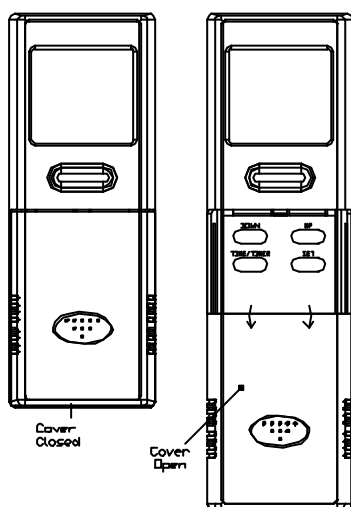
### INSTALLATION AND OPERATING INSTRUCTIONS

#### INTRODUCTION

This SKYTECH remote control system was developed to provide a safe, reliable, and user-friendly remote control system for gas heating appliances. The system can be operated thermostatically or manually from the transmitter. The system operates on radio frequencies (RF) within a 20' range using non-directional signals. The system operates one of 256 security codes that are user programmable; the remote receiver's code must be matched to that of the transmitter prior to initial use.

Review **COMMUNICATION SAFETY SECTION** under **TRANSMITTER** section and **THERMO SAFETY SECTION** under **REMOTE RECEIVER** section. These signal/temperature safety features shut down the fireplace system when a potentially unsafe condition exists.

TRANSMITTER



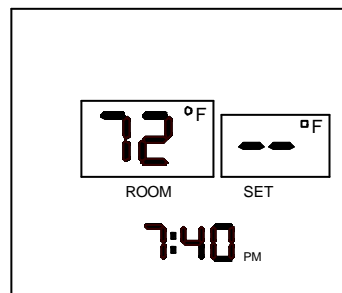
The transmitter operates on 2 AAA-size 1.5V batteries. It is recommended that ALKALINE batteries always be used for longer battery life and maximum operational performance.

**IMPORTANT:** New or fully charged batteries are essential for proper operation of the multi-function transmitter. Insert 2 AAA-size 1.5V batteries into the battery compartment on the back of the transmitter, positioning the (+) and (-) ends of the batteries as indicated on the casing. When the batteries are inserted, the screen at right (with similar numbers) will display.

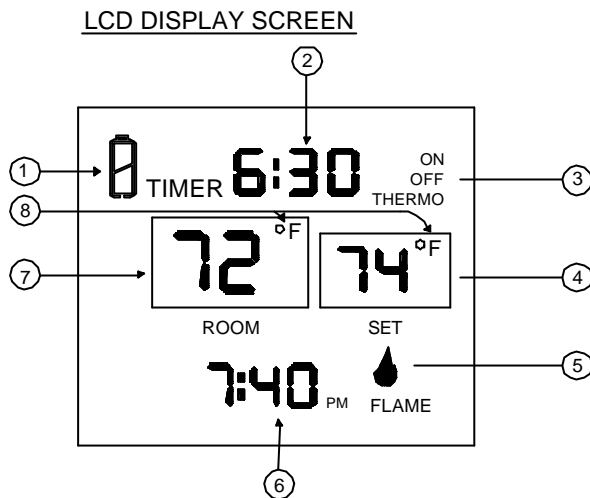
**Note:** If a LOW battery icon appears on the screen, check the position of the batteries; a reversed battery will not activate transmitter.

**Note:** Due to the sensitive temperature-monitoring components in the transmitter, it may be necessary to allow the transmitter to stabilize to room temperature before accurate room temperatures are displayed on the screen. If the transmitter is

LCD DISPLAY



activated from a severe cold condition, it can take up to fifteen minutes for accurate temperature readings to appear.



1. **LOW**-Battery power is low.  
Replace batteries within two weeks.
2. **TIMER**-Indicates time remaining before system shuts off, when timer-programmed; 9-hour maximum setting.
3. **MODE**-Indicates operation MODE of system. ON indicates the system is on, either manually or thermostatically. OFF indicates

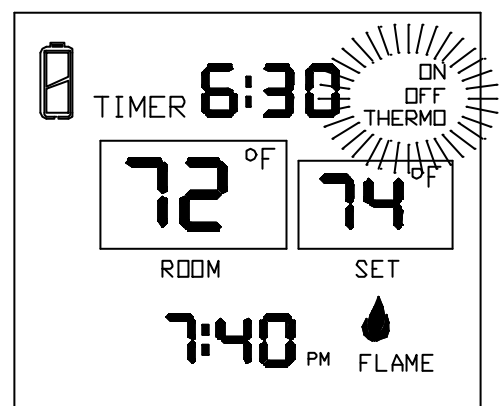
the entire system is turned off THERMO indicates the system will automatically cycle on/off, depending on programmed

4. **SET**-Indicates desire SET room temperature for THERMO operation
5. **FLAME**-Indicates burner/valve in operation.
6. **CLOCK**-Indicates the current time in AM/PM
7. **ROOM**-Indicates CURRENT room temperature.
8. indicates degrees Fahrenheit ( indicates degrees Celsius).

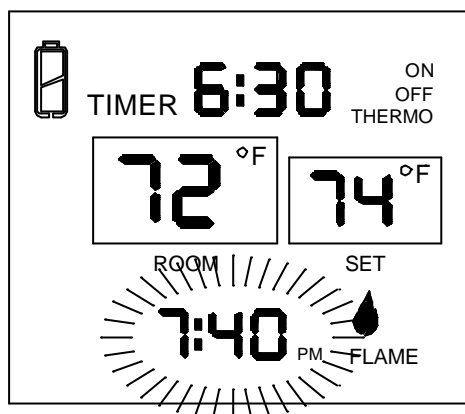
## FUNCTIONS

To operate the system, press the MODE button on the front of the transmitter to select the operational MODE desired.

- ON indicates the system is on, either manually, timed or thermostatically.
- THERMO indicates the system will automatically cycle ON/OFF, depending ON programmed set temperature.
- OFF indicates the entire system is turned off.



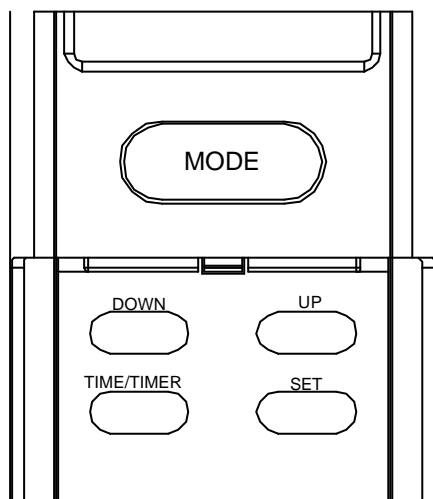
## SETTING THE CLOCK



Slide down the plastic cover on the front of the transmitter to expose the “SET” buttons. The Slide cover protects the SET buttons from being changed accidentally. Close the cover after completing the following settings/programming.

Flashing numbers on the display indicate the system is awaiting user input, such as using the UP and DOWN buttons to program a new setting. If no change is made to flashing digits within 15 seconds, the system will complete the procedure last programmed and reset the display to its normal state.

## BUTTON SETTINGS



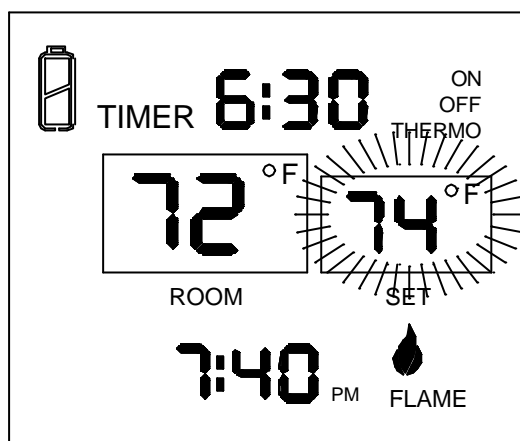
1. Press and hold the TIME /TIMER button on the transmitter for more than two seconds. The hour digit(s) will begin flashing.
2. Press the UP or DOWN button until the desired hour is displayed in AM or PM.
3. After setting the desired hour, press and release the TIME/ TIMER button again to set the minutes; the minute digits will begin flashing.
4. Press the UP or DOWN button until the desired minutes are displayed.
5. Press the SET button on the transmitter to stop the time digits from flashing and set the time. The time digits will cease

flashing, indicating the clock has been successfully set.

## SETTING / SCALE

The factory setting for temperature is . To change this setting to , first press and hold the UP button and the DOWN button on the transmitter at the same time. Follow this same procedure to change from back to . When changing between the and scales, the temperature in the SET frame defaults to the lowest temperature (45 , or 8 ). The highest SET temperature is 99 °**Fahrenheit** (37 °**Celsius**).

## SETTING DESIRED ROOM TEMPERATURE

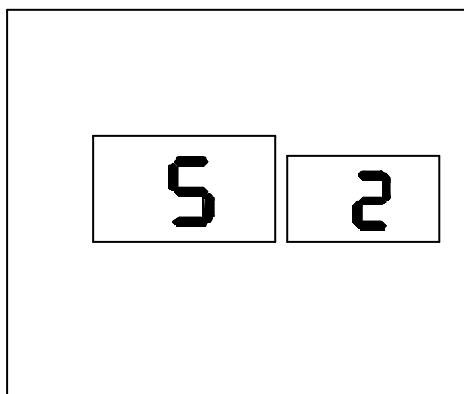


This remote control system can be thermostatically controlled when the transmitter is in the THERMO mode (**THERMO must be displayed on the screen**). To set the DESIRED room temperature, press the MODE button to place the transmitter into THERMO mode, then press the UP or DOWN button to select the desired room temperature. The highest SET temperature is 99 ° Fahrenheit (37 ° Celsius).

**OPERATIONAL NOTE: TO CONSERVE BATTERY POWER, CHANGES IN ROOM TEMPERATURE ARE AUTOMATICALLY UPDATED EVERY TWO MINUTES TO THE TRANSMITTER.**

The Thermo Mode on the transmitter operates the appliance whenever the ROOM TEMPERATURE varies a certain number of degrees from the SET TEMPERATURE. This variation is called the “SWING” or TEMPERATURE DIFFERENTIAL. The normal operating cycle of an appliance may be 2-4 times per hour depending on how well the room or home is insulated from the cold or drafts. A smaller “swing number” increases the number of cycles so the room temperature is more constant. A larger “swing number” decreases the number of cycles, which saves energy, in most cases. The factory setting for the “swing number” is 2. This represents a temperature variation of  $\pm 2$  (1) between SET temperature and ROOM temperature, which determines when the fireplace will be activated. The “SWING” number values are: 1=  $\pm 1$  (.5), 2=  $\pm 2$  (1) and 3=  $\pm 3$  (1.6).

## SETTING THE TEMPERATURE SWING (TEMPERATURE DIFFERENTIAL)



1. To change the temperature “SWING” setting (1-3), press the TIME/ TIMER and DOWN buttons simultaneously to display the current “SWING” setting in the SET TEMP frame. The letter “S” will display in the ROOM TEMP frame on the LCD screen.
2. Press the UP or DOWN button to change

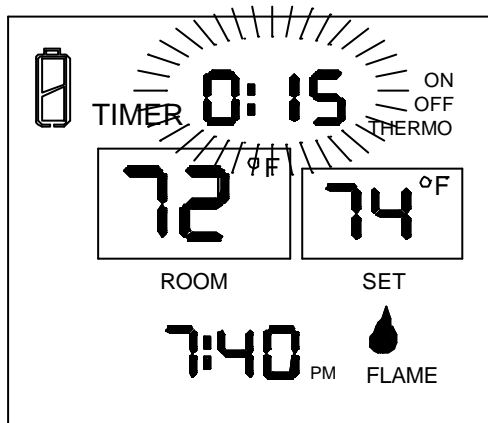
the temperature differential or “SWING” (1-3). See above for 1-3 “SWING” temperature valves.

3. To store the “swing number” press the SET button or allow 15 seconds to lapse, and the new “swing number” will be automatically programmed.

### **MANUAL CHECK OF “SWING” OR TEMPERATURE DIFFERENTIAL**

The operation of the factory set “THERMO SWING” can be checked by adjusting the SET TEMP 2° above or below the room temperature. This will cause the system to turn ON or OFF. Normally the system will only respond to temperature changes every two minutes. Manually changing the SET temperature will activate the system in less than 10 seconds. IF the “SWING” is changed, then a new room temperature differential will respond. Factory setting of “SWING” temperature is 2°.

### **SETTING THE COUNTDOWN TIMER**



This remote control system can operate with a built-in countdown timer when the transmitter is in the ON or THERMO modes (**THERMO or ON must be displayed on the screen**).

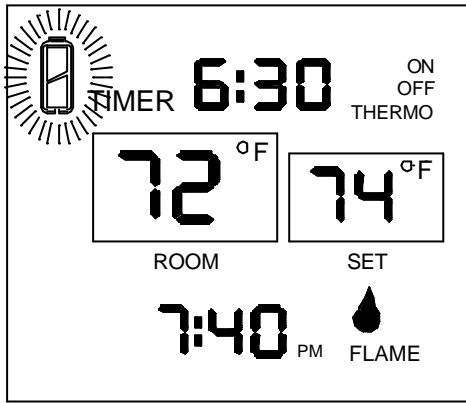
1. Press and release the TIME/ TIMER button on the transmitter. The word **TIMER** and 0:15 flash on the screen.
2. Press the UP or DOWN button on the transmitter to begin advancing through

each of the countdown time options. Available countdown times are 15 minutes, 30 minutes, 45 minutes, 1 hour, 1 hour 30 minutes, 2 hours, 2hours 30 minutes, and each additional half-hour up to nine hours.

3. To set the **TIMER** press the **SET** button on the transmitter if the system is ON. It will remain on until the time has expired. If the system is in the THERMO mode, it will cycle on and off as the room temperature requires until the “time” has expired.

**OPERATIONAL NOTE:** When the timer is used in the THERMO mode, the THERMO operation will discontinue when the “time” has expired.

### **LOW/BATTERY INDICATOR**

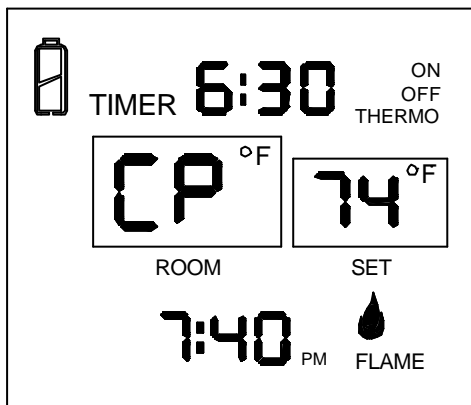


The low battery icon on the left side of the LCD screen will appear when battery power has dropped significantly. At this time, approximately two weeks of battery power remains until the transmitter may experience partial or complete loss of functions.

### **CHILDPROOF “LOCK-OUT” –(CP)**

This SKYTECH remote control includes a CHILDPROOF “LOCK-OUT” feature that allows the user to “LOCK-OUT” operation of the appliance, from the TRANSMITTER.

### **SETTING “LOCK-OUT” –(CP)**



1. To activate the “LOCK-OUT” feature, press and hold the UP and TIME/TIMER buttons, together, for 5seconds. The letters CP will appear in the TEMP frame on the LCD screen.
- To disengage the “LOCK-OUT”, press and hold the UP and TIMER buttons, together for 5 seconds or more, and the letters CP will disappear from the LCD screen and the transmitter will return to its normal operating condition.

**NOTE:** If the appliance is already operating in the ON or THERMO MODES, engaging the “LOCK-OUT” will not cancel the operating MODE. Engaging the “LOCK-OUT” prevents only the manual operation of the TRANSMITTER. If in the auto modes, the THERMO operation will continue to operate normally. To totally “LOCK-OUT” the operation of the TRANSMITTER’S operating signals; the transmitter’s MODE must be set to OFF.

### **TRANSMITTER**

The SKYTECH remote control operates, on RF (radio frequency) signals that are sent by the TRANSMITTER (remote) to the RECEIVER that operates the appliance. It is recommended that the TRANSMITTER always be located within the 20 foot operating range, preferably in the same room in which the appliance is located.

### **THERMO UPDATING FEATURE -TRANSMITTER - (T/S -TX)**

This SKYTECH remote control has a THERMO UPDATING Feature built into its software. The THERMO UPDATING Feature operates in the following manner, but only in the THERMO MODES:

The transmitter normally reads the ROOM temperature every 2 minutes checking the ROOM temperature against the SET temperature and then sends a signal to the receiver.

### **Federal Communication Commission Interference Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Important Note:

FCC Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an

uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.