



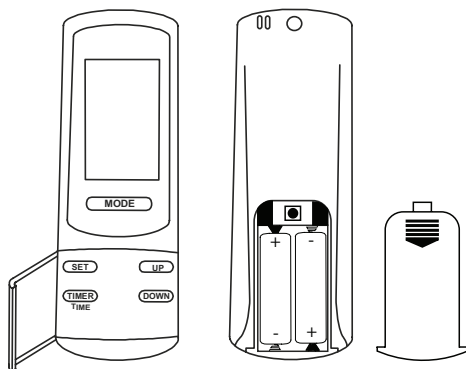
## INSTALLATION AND OPERATION INSTRUCTIONS

**IF YOU CANNOT READ OR UNDERSTAND THESE INSTALLATION INSTRUCTIONS DO NOT ATTEMPT TO INSTALL OR OPERATE**

### INTRODUCTION

This remote control system was developed to provide safe, reliable, user-friendly remote control system for gas heating appliances. The system can be operated manually from the transmitter.

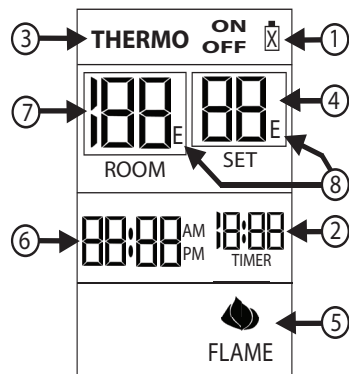
### TRANSMITTER



The transmitter operates on (2) AAA 1.5V batteries that are included. Install the AAA batteries supplied with the unit into the battery compartment. It is recommended that ALKALINE batteries always be used for this product. **Be sure the batteries are installed with the (+) and (-) ends facing the correct direction.**

If the transmitter does not illuminate when you press any buttons, or you see nothing on the LCD screen, check the position of the batteries.

### LIQUID CRYSTAL DISPLAY - LCD



1. **Low Battery Indicator** - Battery power is low, replace batteries within two weeks.
2. **Timer** - Time remaining before the system shuts off.
3. **Mode** - Indicates whether the system is ON, OFF, or in THERMO mode.
4. **Set** - Indicates the desired SET temperature when in THERMO mode.
5. **Flame** - Indicates appliance is on.
6. **Clock** - Indicates current time.
7. **Room** - Indicates current ROOM temperature.
8. **°F** - Indicates degrees Fahrenheit (°C indicates degrees Celsius).

### MODE FUNCTION

To select an operational mode, press the MODE button on the transmitter.

**ON** - Turns the appliance ON, the flame icon will appear on the LCD screen.

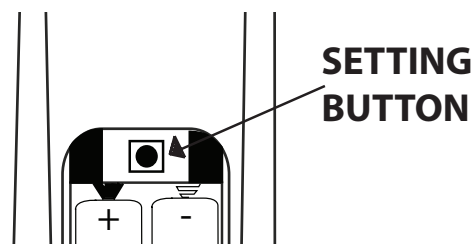
**THERMO** - Remote is in THERMO mode.

**OFF** - Turns the appliance OFF, the flame will disappear from the LCD screen.

### SETTING °FAHRENHEIT / °CELSIUS SCALE

The factory setting for temperature is degrees fahrenheit (°F). To change this setting to degrees Celsius (°C):

- Remove battery cover on the back of the transmitter and locate the setting button in the top center of the battery compartment.
- Push the button once to enter temperature scale setting mode.
- Use the up and down buttons to switch between the °F and °C.
- Push the setting button again once again to set the displayed temperature scale.
- Repeat this procedure to switch back to °F.



## **THERMOSTAT FUNCTION**

- Press the **MODE** key until the LCD screen shows the word “THERMO” at the top of the screen.
- To adjust set temperature, press the **UP** and **DOWN** buttons until the desired temperature is reached. The temperature range is 99°F (32°C) to 45°F (6°C).
- If no button is pressed, the set temperature will automatically be accepted.
- The flame icon will appear when the control calls for heat. The flame icon will disappear when the appliance reaches its set temperature.
- Press the **MODE** key to disengage the Thermo Mode.

## **THERMO UPDATING FEATURE**

This remote control has a temperature updating feature built into its software. The transmitter reads the room temperature every 2 minutes, then updates the room temperature on the LCD screen.

**NOTE:** The thermo feature 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. This feature lets the appliance turn off and on 2 °F (1 °C) above or below the set temperature of the room. This is to cushion the number of times the appliance is turned on and off.

## **SETTING THE CLOCK**

- Hold the **TIMER/TIME** button for 3 seconds. The hour section of the time will begin flashing.
- Select the hour by pressing the **UP** and **DOWN** buttons. If you go past 12 o'clock the AM and PM will change.
- Once the hour is selected, press and release the **TIMER/TIME** button again, and the minute section of the time should be flashing.
- Use the **UP** and **DOWN** buttons to scroll through the minutes.
- Once the minutes are correct, press the set button or press and hold the **TIMER/TIME** button for 3 seconds. The time will lock.

## **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).

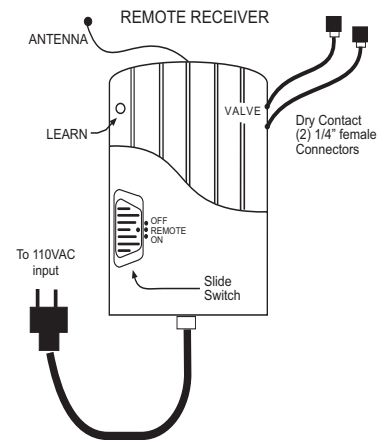
- Press and release the **TIMER** button. The minimum 0:15 minute setting on the LCD Screen will begin to flash.
- Press the **UP** or **DOWN** button on the transmitter to choose your countdown time. Available countdown times are 15 min, 30 min, 45 min, and 1 hour to 9 hours (alternating every 30 min).
- To initiate the countdown, press the **SET** button. If no button is pressed within 15 seconds, the setting will automatically be accepted. The system will return to OFF mode when the countdown time expires. If the system is in THERMO mode, it will cycle on and off based on the set temperature until the timer expires.

## **RECEIVER**

When plugged into a standard 110-120 VAC receptacle, the remote receiver operates on commands from the transmitter or from the slide switch on the face of the receiver (This switch is to be used during a power outage to operate the appliance manually).

- **ON:** will manually turn on the appliance.
- **REMOTE:** will allow use of handheld transmitter. If the system does not respond to the transmitter on initial use, check the battery positions in the remote. If that does not work, see the **LEARNING TRANSMITTER TO RECEIVER** section.
- **OFF:** will disable the remote receiver.
- **It is suggested that the slide switch be placed in the OFF position if you will be away from your home for an extended period of time.**

The remote receiver is manufactured with a “dry contact” relay in its circuitry that operates like an on/off switch. However, no power or current passes from the 110-120 VAC input side to the wires leading from the output side of the remote receiver.



## **WARNING**

This remote control system must be installed exactly as outlined in these instructions. Read all instructions completely before attempting installation. Follow instructions carefully during installation. Any modifications of this remote control or any of its components will void the warranty and may pose a fire hazard.

Consult gas appliance manufacturer's instructions and wiring schematics for proper placement of all wires. All electronic modules are to be wired to manufacturer's specifications.

The following wiring diagrams are for illustration purpose only. Follow instructions from manufacturer of gas valve and/or electronic module for correct wiring procedures. Improper installation of electric components can cause damage to electronic module, gas valve and remote receiver.

## INSTALLATION

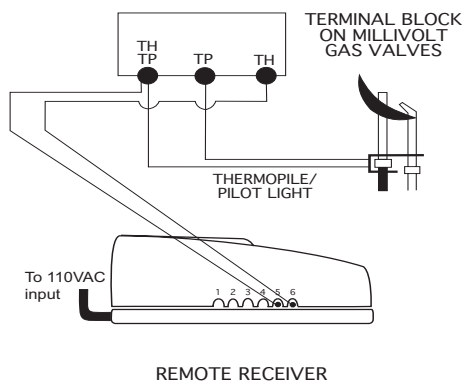
Protection from extreme heat is very important. The remote receiver should be kept away from temperatures exceeding 170°F. Extreme heat can cause damage, which is not covered under warranty.

- Before installation, make sure you turn the slide switch to **OFF**. After installation, make sure you turn the slide switch to **REMOTE**.
- The remote receiver can be placed on the fireplace hearth or under the fireplace behind the control access panel.
- Use the wires attached to the remote receiver to connect to the gas valve or the electric module (piggyback connectors have both male & female terminals for flexibility).
- Be sure that the connectors do not touch each other or other bare metal surfaces; this will cause the appliance to turn on. The connectors may be wrapped with electrical tape to prevent this.

## WIRING INSTRUCTIONS

A qualified electrician should install the remote control system.

### MILLIVOLT VALVES

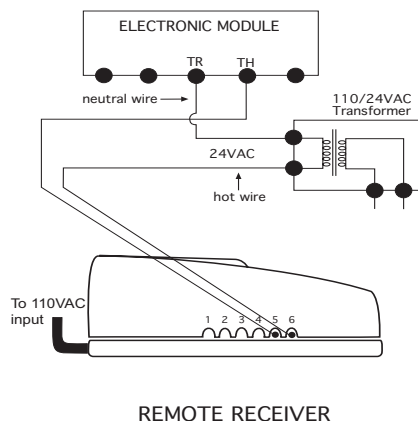


- Connect one wire from the remote receiver to the TH terminal on the gas valve.
- Connect the other wire from the remote receiver to the TH/TP terminal on the gas valve.

### MILLIVOLT SYSTEM CHECK

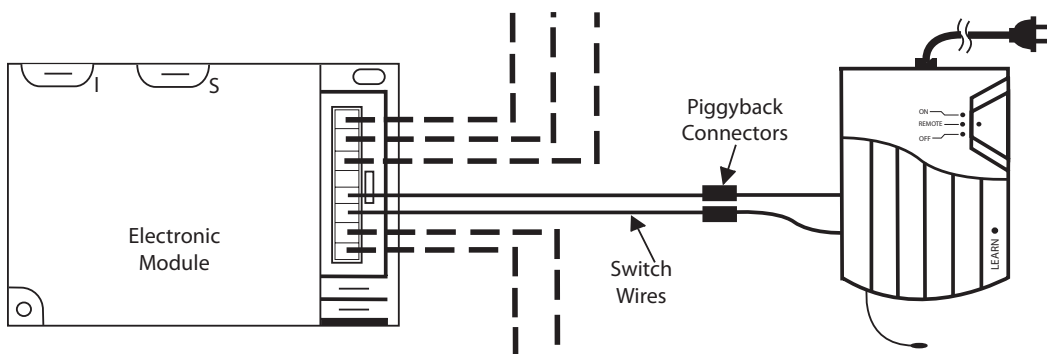
- Ensure that the pilot flame is lit.
- Slide the 3-position button on the remote receiver to the **ON** position. The main gas flame (i.e., the fire) should ignite.
- Slide the button to **OFF**. The main flame should extinguish (the pilot flame will remain on).
- Slide the button to **REMOTE**, then press the **ON** button on the transmitter to change the system to on. The main gas flame should ignite.

### ELECTRONIC SPARK IGNITION 24 VAC INPUT



The remote control receiver can be connected, in series, to a 24VAC transformer to the TR (transformer) terminal on the ELECTRONIC MODULE. Connect the hot wire from the 24VAC transformer to either of the wires on the remote receiver. Connect the other wire from the receiver to the TH (thermostat) terminal on the ELECTRONIC MODULE.

### ELECTRONIC SPARK IGNITION DRY CONTACT INPUT



### ELECTRONIC SPARK SYSTEM CHECK

- Slide the 3-position button on the remote receiver to the **ON** position. The spark electrode should begin sparking to ignite the pilot. After the pilot flame is lit, the main gas valve should open and the main gas flame should ignite.
- Slide the button to **OFF**. The main gas flame and pilot flame should both extinguish.
- Slide the button to **REMOTE**, then press the ON button on the transmitter to change the system to on. The spark electrode should begin sparking to ignite the pilot. After the pilot is lit, the main gas valve should open and the main gas flame should ignite.

### COMMUNICATION - SAFETY - TRANSMITTER - (C/S - T/X)

This remote control has a COMMUNICATION –SAFETY function built into its software to ensure the transmitter and receiver are communicating normally.

In all operating modes, the transmitter sends an RF signal every fifteen minutes to the receiver indicating that the transmitter is within the normal operating range of 20 feet. Should the receiver NOT receive this signal, the receiver will begin a 2 hour countdown. If the receiver does not receive a signal from the transmitter in 2 hours, the receiver will shut off the appliance. The receiver will then emit a series of rapid “beeps” for a period of 10 seconds. Then after 10 seconds of rapid beeping, the receiver will continue to emit a single “beep” every 2 seconds until a transmitter **MODE** Button is pressed to reset the receiver.

### AUTO SHUT DOWN

This remote control has an auto shut down feature incorporated into its system. When the transmitter mode is in the ON position, the appliance will only run for 9 hours. After that it will shut down. To reactivate the appliance, press the **MODE** button.

### CP (CHILDPROOF) FEATURE

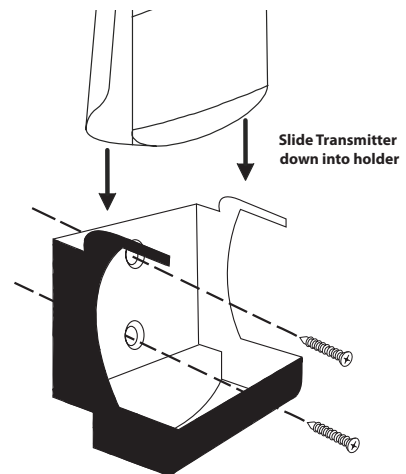
This remote control includes a childproof feature that allows the user to “lock-out” operations from the transmitter.

- To activate and de-activate the childproof feature, press and hold the **SETTING** button behind the battery cover for 5 seconds (The letters “CP” will briefly appear on the LCD screen when childproof mode is activated).
- “CP” will appear on the LCD screen if any button is pressed while childproof mode is engaged.
- When this mode is engaged, all auto settings go on without interruption (like thermostat). Only manual functions are prevented.

### TRANSMITTER WALL BRACKET

The transmitter can be hung on a wall using the clip provided.

- Wood - Drill 1/8” pilot holes and install with screws provided.
- Plaster/Wallboard - Drill 1/4” holes. Use a hammer to tap in the two plastic anchors. Then install the screws provided.



### BATTERY LIFE

Life expectancy of the alkaline batteries in the transmitter should be at least 12 months. Check and replace all batteries:

- Annually.
- When operating range becomes reduced.
- When transmissions are not received by the remote receiver.
- If the hand held transmitter batteries measure less than 2.5 volts (Both batteries in combination).

## **LEARNING TRANSMITTER TO RECEIVER**

This transmitter has one of 1,048,576 unique security codes. It may be necessary to program the remote receiver to “learn” the security code of the transmitter upon initial use, if batteries are replaced, or if using a replacement transmitter.

- Make sure the receiver’s slide switch is in the **REMOTE** position.
- Press and release the **LEARN** button on the receiver.
- When you hear the “Beep”, press and hold the **MODE** button for about 2 seconds on the transmitter.
- You will then hear a series of beeps that indicate that your new transmitter has been accepted by the receiver.

## **TROUBLE SHOOTING**

If you encounter problems with your fireplace system, the problem may be with either the fireplace itself or with the remote. Review the fireplace manufacturer’s operation manual to make sure all connections are properly made. Then check the operation of the remote in the following manner:

- Make sure all batteries are correctly installed in the transmitter. Also check that the batteries are fully charged.
- Check batteries in transmitter to make sure contacts are touching (+) and (-) ends of battery. Bend metal contacts in for tighter fit.
- Be sure receiver and transmitter are within 20’-25’ operating range.
- If receiver is installed in a tightly enclosed metal surrounding, the operating distance will be shortened.
- Make sure the hand-held transmitter and remote receiver are communicating properly (see LEARNING TRANSMITTER TO RECEIVER section).

### **FCC REQUIREMENTS**

**NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THE EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER’S AUTHORITY TO OPERATE THE EQUIPMENT**

## **MANUFACTURED EXCLUSIVELY FOR SKYTECH II, INC**

For Technical Service, call:

### **U.S. INQUIRIES**

888/672-8929 or 260/459-1703  
Web site: [www.skytechsystem.com](http://www.skytechsystem.com)

### **CANADIAN INQUIRIES**

877/472-3923

## Limited Lifetime Warranty

SKYTECH warrants the SKYTECH REMOTE CONTROL SYSTEM for a Limited Lifetime of the original owner of this system. This warranty is not transferable to another person it is for the original purchaser of the product.

Should any part fail because of defective workmanship or material from the original date of purchase.

SKYTECH will repair or, at SKYTECH option, replace the defective parts.

Replacement parts will be available at no charge for the first (5) five years of this warranty, and will be available at market cost for the Lifetime of the product to that original owner. If SKYTECH does not have the parts for an individual model, then a replacement SYSTEM will be provided. At no charge for the first (5) five years and sold at market cost for the Lifetime of that product to the original owner.

The Owner must provide a bill of sale, cancelled check, or payment record should be kept to verify purchase date and establish warranty period. Travel, diagnostic cost, service labor to repair the defective SYSTEM, and freight charges on warranty parts to and from the factory will be the responsibility of the owner. SKYTECH will not be responsible for labor charges and/or damage incurred in installation, repair, replacement, or for incidental or consequential damages. Batteries and any damage caused by them are not covered by them are not covered by this warranty.

This warranty does not cover claims, which do not involve defective workmanship or materials.

Damage to the SYSTEM caused by accident, misuse, abuse, or installation error, whether performed by a contractor, Service Company, or owner, is not covered by this warranty. Modification of the SKYTECH product will void this warranty.

IN NO EVENT SHALL SKYTECH BE LIABLE FOR INCIDENTAL AND CONSEQUENTIAL INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, ARE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. THIS WARRANTY SUPERSEDES ALL OTHER ORAL OR WRITTEN WARRANTIES.

Some States do not allow the exclusion or limitation of incidental and consequential damages or limitation on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific rights and you may have other rights, which vary from state, province, and nation.

### How to Obtain Service:

Contact SKYTECH or your SKYTECH Dealer direct with the following information:

- Name, Address, Telephone Number of Owner
- Date of Purchase, Proof of Purchase
- Model Name, Date Code

Any relevant information or circumstances, e.g., installation, mode of operation when defect was noted.

Warranty claim process will start with all of this information. SKYTECH will reserve the right to physically inspect the product for defects, by authorized representatives.

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Detach at this line for return to: Skytech II 9230 Conservation Way, Fort Wayne, IN 46809 Telephone: (888) 672-8929

Purchase Date: \_\_\_\_\_ Model: \_\_\_\_\_ Date Code: \_\_\_\_\_

Purchased From: \_\_\_\_\_ Date: \_\_\_\_\_

Customer

Name

Number of Santa's Helpers

Address

City \_\_\_\_\_ State/Prov. \_\_\_\_\_ Zip/Postal Code \_\_\_\_\_

Credit Card Number

Expiring Date

(Visa and MasterCard Only)

See other side for a special offer for all Remote control Customers



# Santa's Helper

## Exclusive offer to Skytech Remote Control Owners

This special offer is only provided to customers of Skytech that have purchased a remote control for their Hearth Product. This remote control system can be used for any 110Volt appliance, but perfect your Christmas Tree Lights or any other appliance that is difficult to reach or plug in. Simply plug the receiver into your wall outlet and your appliance into the receiver, push the ON button on the transmitter and you are in business. It's that easy!



The list price of **\$48.00** for the Santa's Helper has been cut almost in half to **\$20.00 USD** for this exclusive offer. Shipping and handling of **\$5.00 \$USD** should be added. Send us your check or money order or call us with your credit card number, along with the warranty information from your remote control of your Hearth Product. You can also send it via mail, fax, or e-mail.

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