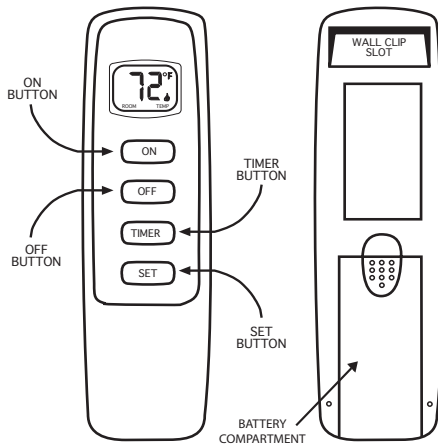# SKYTECH

Model: 1410 T/LCD-A

INSTALLATION AND OPERATING INSTRUCTIONS

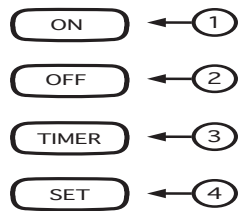**IF YOU CANNOT READ OR UNDERSTAND THESE INSTALLATION INSTRUCTIONS DO NOT ATTEMPT TO INSTALL OR OPERATE**

INTRODUCTION

This remote control system was developed to provide a safe, reliable user-friendly remote control system for gas heating appliances.
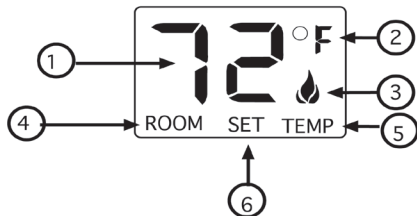
TRANSMITTER

The transmitter operates on (2) 1.5V AAA batteries. 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, and are fully charged.**

KEY SETTINGS

1. **ON** - - - Turns appliance ON.
2. **OFF** - - Turns appliance OFF.
3. **TIMER** Changes unit from manual mode to timer mode.
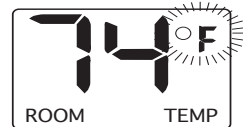4. **SET** - - Adjusts timer setting.

LCD - LIQUID CRYSTAL DISPLAY

1. Display - - - - - - - - - - Indicates current room temperature.
2. Fahrenheit or Celsius Indicates degrees Fahrenheit or Celsius.
3. Flame - - - - - - - - - - - Indicates appliance is on.
4. Room - - - - - - - - - - - Indicates remote is in thermo mode.
5. Temperature - - - - - - Appears during manual operation.
6. Set - - - - - - - - - - - - - Appears when adjusting the desired timer setting.

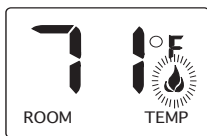### SETTING ºFAHRENHEIT / ºCELSIUS SCALE

The factory setting for temperature is ºF. To change the displayed temperature scale, press the **ON** and **OFF** keys at the same time. Follow this same procedure to return to ºF.
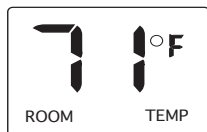
MANUAL FUNCTION

ON OPERATION:
Press the **ON** key to turn the appliance on. (The flame icon will appear on the LCD screen.)

ON MODE

OFF OPERATION:
Press the **OFF** key to turn the appliance off. (The flame icon will disappear from the LCD screen.)

OFF MODE

TIMER FUNCTION

- Press the **ON** button to start the appliance.
- Press the **TIMER** button. The LCD screen will show the word set.
- Press the **SET** button until the desired time is reached (15min - 180min in 15 minute increments). The max setting time is 3 hours.
- NOTE: The LCD display will flash the set time for 6-seonds, then start the countdown.
- Press the **OFF** button to turn OFF the timer, and the appliance.

SET MODE
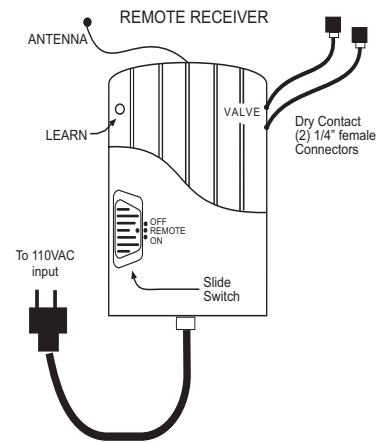
COUNT DOWN MODE

TEMPERATURE 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.

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 SECURITY CODE 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 110-120VAC input side to the wires leading from the output side of the remote receiver.

INSTALLATION

Protection from extreme heat is very important. The remote receiver should be kept away from temperatures exceeding 130ºF. 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.

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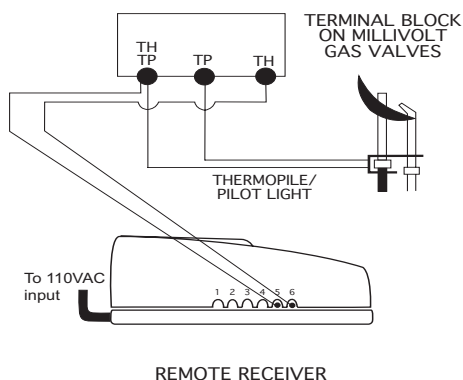
Consult gas appliance manufacturer's instructions and wiring schematics for proper placement of all wires. All electronic modules are to be wired to manufacturer's specifications.

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.

WIRING INSTRUCTIONS

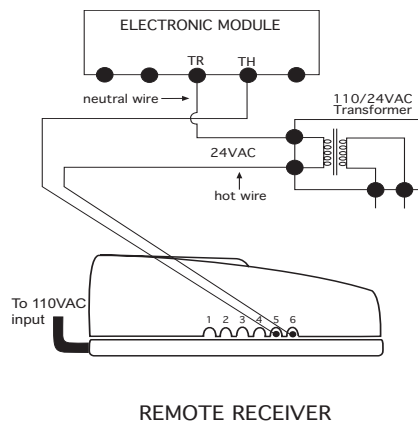A qualified electrician should install the remote control system.

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 IGNITIONS

ELECTRONIC MODULE

REMOTE RECEIVER

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 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.

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 **ON** button and the **TIMER** button at the same time for 5-seconds. The letters "CP" will appear in the TEMP frame on the LCD screen.
• "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 timer). Only manual functions are prevented.

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 4 seconds until the transmitter **ON**, **OFF** or **MODE** Button is pressed to reset the receiver.

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.
NOTE: This receiver can hold up to 3 transmitter codes. This is for the times when a second hand held transmitter or a wall transmitter is required.
• 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 **ON** or **OFF** 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.
• If you press the **LEARN** button on the receiver and you hear no beeps, the receiver is unable to retain any more transmitter codes (make sure that the transmitter batteries are properly installed and fully charged).
• To delete all of the transmitter codes on your receiver, press and hold the **LEARN** button for 10 seconds. Then you will hear a series of beeps, indicating that the receiver's memory has been cleared.
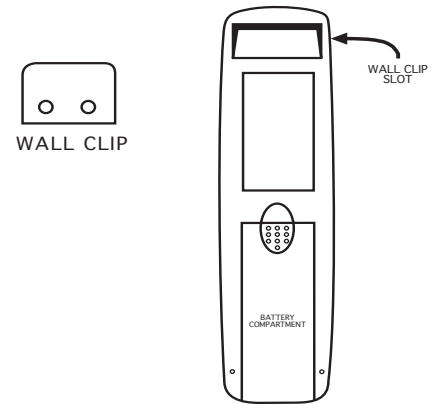
BATTERY LIFE

Life expectancy of the alkaline batteries in the transmitter and receiver 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)

TRANSMITTER WALL CLIP

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, then install with the screws provided.

WALL CLIP

WALL CLIP SLOT

BATTERY COMPARTMENT

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 there is a 110-volt power source to the receiver.
- Check batteries in transmitter to make sure contacts are touching (+) and (-) ends of battery. Bend metal contacts in for tighter fit.
- Check if the transmitter batteries are fully charged.
- Ensure receiver and transmitter is within 20 to 25-foot operating range.
- Keep receiver from temperatures exceeding 130º F. Battery life will be shortened if exposed to those temperatures.
- 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 THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

FOR TECHNICAL SERVICE, CALL:

U.S. INQUIRIES
(888) 672-8929 OR (260) 459-1703
WEB SITE: www.skytechsystem.com

CANADIAN INQUIRIES
(877) 472-3923

MANUFACTURED EXCLUSIVELY FOR SKYTECH II, INC

Limited Lifetime Warranty

SKYTECH II 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 II will repair or, at SKYTECH II 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 II 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 II 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.

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 II, Inc. 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 **$29.95** for the Santa's Helper has been cut almost in half to **$15.00 USD** for this exclusive offer. Shipping and handling of **$5.00 $USD** should be added. Send your check, money order or your Visa / MasterCard number, with Expiration Date to our office, along with the warranty information from your remote control for your Hearth Product. You can send this via mail, fax, or e-mail.

Skytech II, Inc.
9230 Conservation Way
Fort Wayne, IN   46809
1 (888) 672-8929
1 (888) 672-8024 Fax
support@skytechsystem.com e-mail