



Model: SR1001 TH-1 (SKY MRCK-TH)

INSTALLATION AND OPERATING INSTRUCTIONS

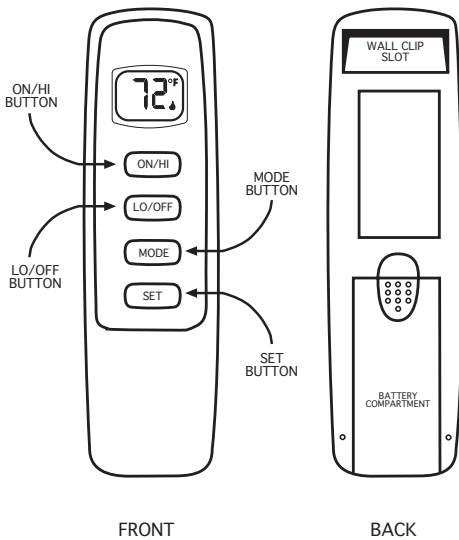
MULTI-FUNCTION WIRELESS REMOTE CONTROL SYSTEM FOR OPERATING SERVO MOTOR VALVE, MANUALLY AND WITH A THERMOSTAT FUNCTION

**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, and user-friendly remote control system for gas heating appliances. The system operates on radio frequencies (RF) within a 20-foot range using non-directional signals. The system operates on one of 1,048,576 security codes that are programmed into the transmitter at the factory; the remote receiver's code must be matched to that of the transmitter prior to initial use.

TRANSMITTER



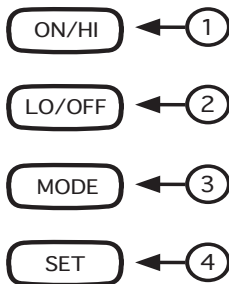
This remote control SYSTEM offers the user a battery-operated remote control to power up to a 6 VDC servo motor or solenoid such as those used with gas valves used in some heater rated gas logs, gas fireplaces and other gas heating appliances.

The servo motor or solenoid circuit uses the battery power from the receiver to operate a servo motor or solenoid. The circuit has reversing polarity software which reverses the positive (+) and negative (-) output of the receiver's battery power to drive the servo motor forward/backward. (HI/LO FLAME) The SYSTEM is controlled by the remote transmitter.

The transmitter operates with two (2) 1.5V AAA batteries.

It is recommended that ALKALINE batteries always be used for longer battery life and maximum operational performance.

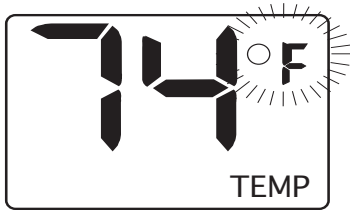
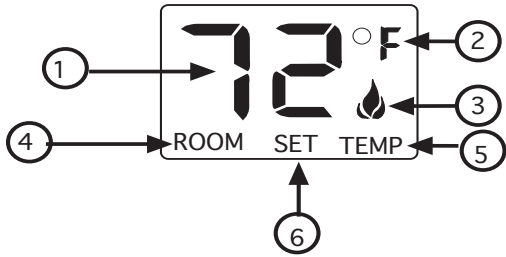
Before using the transmitter, install the (2) AAA transmitter batteries into the battery compartment. (Use caution that batteries are installed in the proper direction)



KEY SETTINGS

- ON/HI - Operates unit to on position, Manually operated servo HI.
- LO/OFF - Operates unit to off position, manually operated servo LO.
- MODE - Changes unit from manual mode to thermo mode.
- SET - Sets temperature in thermo mode.

LCD - Liquid Crystal Display



1. **DISPLAY** Indicates CURRENT room temperature .
2. **° F OR ° C** Indicates degrees Fahrenheit or Celsius.
3. **FLAME** Indicates burner/valve in operation.
4. **ROOM** Indicates remote is in THERMO operation.
5. **TEMP** Appears during manual operation.
6. **SET** Appears during time of setting the desired temperature in the thermo operation.

SETTING ° F / ° C SCALE

The factory setting for temperature is ° F. To change this setting to ° C, first

- Press the ON/HI key and the LO/OFF key on the transmitter at the same time this will change from ° F to ° C. Follow this same procedure to change from ° C back to ° F.

MANUAL FUNCTION

To operate the system in the manual "MODE" do the following.

ON OPERATION

Press and hold the ON/HI key until the appliance flame comes on and reaches the desired flame height or is at full on. During this time the LCD screen will show HI, after 3 seconds the LCD screen will default to display room temperature and the word TEMP will show. **(Flame icon will appear on LCD screen in manual on mode)**

OFF OPERATION

Press and hold the LO/OFF key until the appliance flame reaches the desired flame height or completely shuts off. During this time the LCD screen will show LO, after 3 seconds the LCD screen will default to display room temperature and the word TEMP will show.

THERMOSTAT FUNCTION

SETTING DESIRED ROOM TEMPERATURE

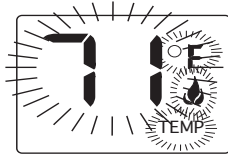
This remote control system can be thermostatically controlled when the transmitter is in the THERMO mode (The word **ROOM** must be displayed on the screen). To set the THERMO MODE and DESIRED room temperature,

Press the MODE key until the LCD screen shows the word ROOM, then the remote is in the thermostatic mode.

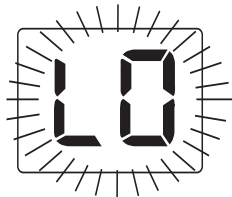
Press and hold the SET key until the desired set temperature is reached. (By pressing and holding the set key the LCD screen set numbers will increase from 45° to 99° then restart over at 45°) Next



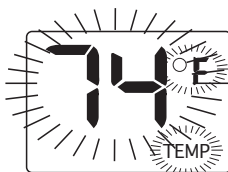
SCREEN DURING ADJUSTING TO ON



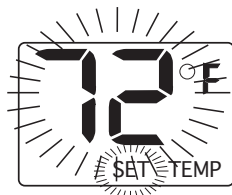
SCREEN AFTER 3 SECOND DEFAULT



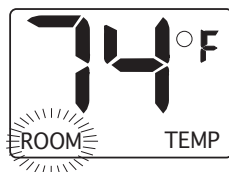
SCREEN DURING ADJUSTING TO OFF



SCREEN AFTER 3 SECOND DEFAULT



THERMO SET



THERMO MODE

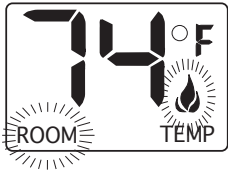
release the SET key. The LCD screen will display the set temperature for 3 seconds and the LCD screen will flash the set temperature for 3 seconds, then the LCD screen will default to display the room temperature.

TO CHANGE THE SET TEMPERATURE

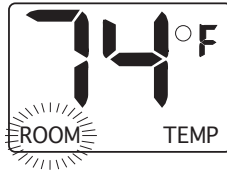
Press and hold the SET key until the desired set temperature is reached. (By pressing and holding the set key the LCD screen set numbers will increase from 45⁰ to 99⁰ then restart over at 45⁰) Next release the SET key. The LCD screen will display the set temperature for 3 seconds, then will flash the set temperature for 3 seconds, then the LCD screen will default to display the room temperature.

Press the MODE key to disengage the thermo mode. The word ROOM on the LCD screen will not show when the thermo is not in operation.

NOTE: The highest SET temperature is 99⁰ Fahrenheit (32⁰ Celsius) and the lowest temperature is 45⁰ Fahrenheit (6⁰ Celsius)



THERMO ON



THERMO OFF

OPERATIONAL NOTES:

1. While in the Thermo mode the flame height can be adjusted to a lower than FULL /ON setting if desired by pressing the LO/OFF key. This setting will hold only until the next update of the transmitter. Then the setting will return to FULL/ON. This will not disengage the thermo mode. The transmitter reads changes in room temperature and updates every two minutes.
2. To hold the lower than FULL/ON setting until the next OFF cycle you must manually turn the flame adjustment knob on the control valve to a lower setting. This setting will hold until the room temperature is 2 deg. above the set temperature (OFF cycle) at that time the transmitter will send a signal to the receiver to shut the appliance OFF. At the next ON cycle the appliance will return to FULL/ON.

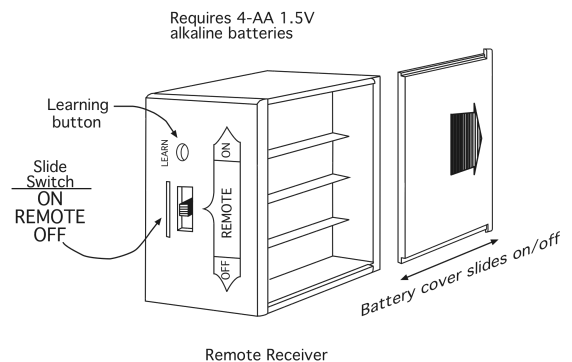
The Thermo Feature on the transmitter operates the appliance whenever the ROOM TEMPERATURE varies a certain number of degrees from the SET TEMPERATURE. This variation is called the "SWING" or TEMPERATURE DIFFERENTIAL. The normal operating cycle of an appliance may be 2-4 times per hour depending on how well the room or home is insulated from the cold or drafts. The factory setting for the "swing number" is 2. This represents a temperature variation of +/- 2⁰ F (1⁰ C) between SET temperature and ROOM temperature, which determines when the fireplace will be activated.

The transmitter has ON/HI and LO/OFF manual functions that are activated by pressing either button on the face of the transmitter. When a button on the transmitter is pressed the word HI or LO will appear on the LCD screen to show while the signal is being sent. Upon initial use, there may be a delay of three seconds before the remote receiver will respond to the transmitter. This is part of the system's design.

REMOTE RECEIVER

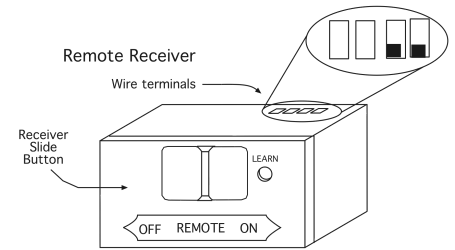
The remote receiver (right) operates on four 1.5V AA-size batteries. It is recommended that ALKALINE batteries be used for longer battery life and maximum microprocessor performance. **IMPORTANT:** New or fully charged batteries are essential to proper operation of the remote receiver as a servo motor's power consumption is substantially higher than standard remote control systems.

NOTE: The remote receiver will only respond to the transmitter when the 3-position slide button on the remote receiver is in the **REMOTE** position. The remote receiver houses the microprocessor that responds to commands from the transmitter to control system operation.



FUNCTIONS:

- With the slide switch in the ON position (toward the LEARN button), the system will remain ON until the slide switch is placed in the OFF or REMOTE position.
- With the slide switch in the REMOTE position (centered), the system will only operate if the remote receiver receives commands **from the transmitter**.
- With the slide switch in the OFF position (away from the LEARN button), the system is OFF.
- **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. If the remote receiver is mounted out of children's reach, placing the slide switch in the OFF position also functions as a safety "lock-out" by both turning the system off and rendering the remote receiver inoperative**



INSTALLATION INSTRUCTIONS

WARNING

DO NOT CONNECT REMOTE RECEIVER DIRECTLY TO 110-120VAC POWER. THIS WILL DAMAGE THE RECEIVER AND RENDER INOPERABLE. FOLLOW INSTRUCTIONS FROM MANUFACTURER OF GAS VALVE FOR CORRECT WIRING PROCEDURES. IMPROPER INSTALLATION OF ELECTRIC COMPONENTS CAN CAUSE DAMAGE TO GAS VALVE AND REMOTE RECEIVER.

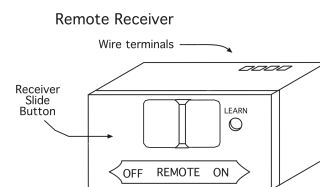
INSTALLATION

The remote receiver can be mounted on or near the fireplace hearth. PROTECTION FROM EXTREME HEAT IS VERY IMPORTANT. Like any piece of electronic equipment, the remote receiver should be kept away from temperatures exceeding 130°F inside the receiver case. Battery life is also significantly shortened if batteries are exposed to high temperatures.

HEARTH MOUNT

The remote receiver can be placed on the fireplace hearth or under the fireplace, behind the control access panel. Position where the ambient temperature inside the receiver case does not exceed 120° F.

NOTE: Black Button (Receiver Slide Button) is used on Hearth Mount Applications.



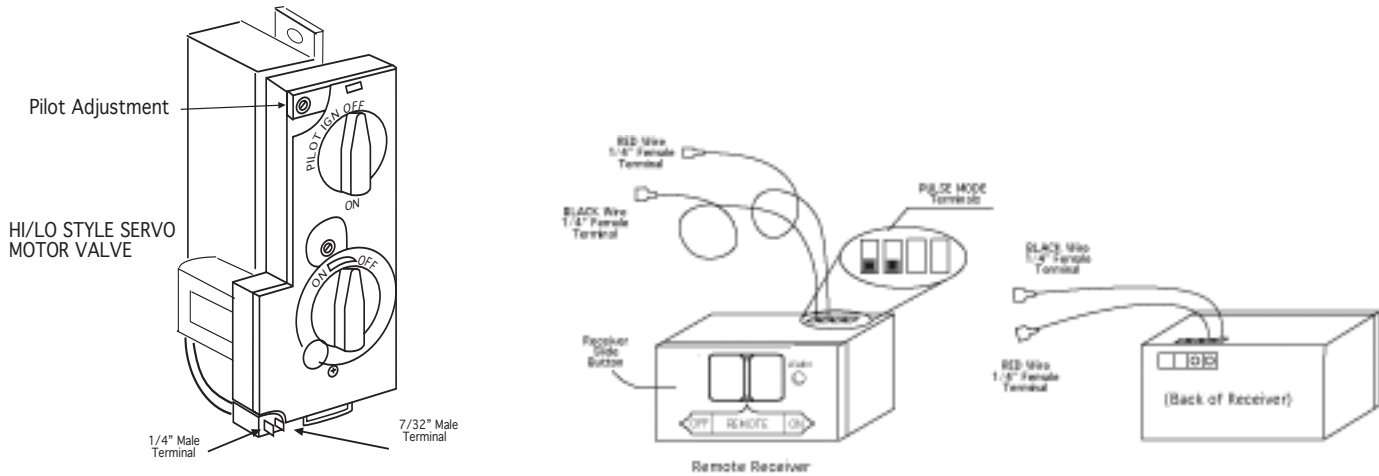
WIRING INSTRUCTIONS

CONNECTING THE RECEIVER TO A HI/LOW SERVO MOTOR STYLE VALVE SYSTEM

1. Connect the BLACK 18 gage stranded wire with the 1/4" female terminal from the receiver to the 1/4" male terminal on the valve servo motor.
2. Connect the RED 18 gage stranded wire with the 1/4" female terminal from the receiver to the 7/32" male terminal on the valve servo motor. **NOTE:** The 1/4" female terminal may need to be replaced if your connection does not adequately fit the 7/32" terminal.
3. After receiver wires are connected to the valve servo motor terminals make sure the receiver shield is located over the receiver and then locate the receiver in an area that will not exceed the 130° F.
4. Depending on the product that this remote control system is used on, the 1/4" female terminal and wire from the receiver and the 7/32" female terminal and wire may need to be cut to a shorter length. This can be done by removing the (2) wires from the receiver cutting them to the desired length then reinstalling them into the same connections on the receiver.

IMPORTANT NOTE: Operation of these controls is dependent on which wire is attached to which terminal. If operation of control does not correspond to operating buttons on transmitter, reverse wire installation at the receiver or at the control.

NOTE: Up to 6 VDC of power is provided at the receiver terminal.



GENERAL INFORMATION

LEARNING TRANSMITTER TO RECEIVER

Each transmitter uses a unique security code. It will be necessary to press the LEARN button on the receiver to accept the transmitter security code upon initial use, if batteries are replaced, or if a replacement transmitter is purchased from your dealer or the factory. In order for the receiver to accept the transmitter security code, be sure the slide button on the receiver is in the REMOTE position; the receiver will **not** LEARN if the slide switch is in the ON or OFF position. The LEARN button is located on the front face of the receiver; inside the small hole labeled LEARN. Using a small screwdriver or end of a paperclip gently press the black LEARN button inside the hole and release the button. When you release the LEARN button the receiver will emit a "beep". After the receiver emits the beep press the transmitter OFF button and release. The receiver will emit several beeps indicating that the transmitter's code has been accepted into the receiver.

A microprocessor controls the security code (learning process) that is controlled by a timing function. If you are unsuccessful learning the security code on the first attempt, wait 1 – 2 minutes before trying again - - this delay allows the microprocessor to reset the timer circuitry - - and try up to two or three more times.

CHILDPROOF (CP) FEATURE

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

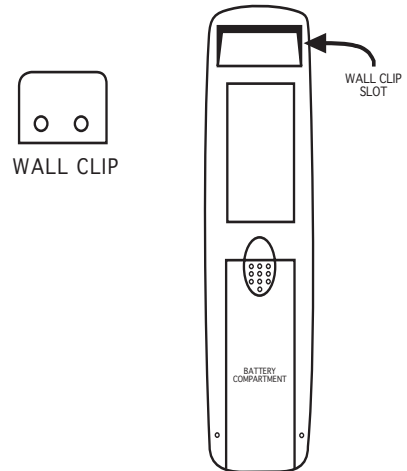
SETTING "LOCK-OUT" -(CP)

- To activate the "LOCK-OUT" feature, press and hold the ON/HI button and the MODE button at the same time for 5 seconds. The letters CP will appear in the TEMP frame on the LCD screen.
- To disengage the "LOCK-OUT", press and hold the ON/HI button and the MODE button at the same time for 5 seconds and the letters CP will disappear from the LCD screen and the transmitter will return to its normal operating condition.
- To verify that transmitter is in the CP lock-out mode press any button and the LCD screen will show "CP"

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 WALL CLIP

The transmitter can be hung on a wall using the clip provided. If the clip is installed on a solid wood wall, drill 1/8" pilot holes and install with the screws provided. If it is installed on a plaster/wallboard wall, first drill two 1/4" holes into the wall. Then use a hammer to tap in the two plastic wall anchors flush with the wall; then install the screws provided.



BATTERY LIFE

Life expectancy of the alkaline batteries in the SR 1001TH-1 can be up to 12 months depending on use of the servo function. Replace all batteries annually. When the transmitter no longer operates the remote receiver from a distance it did previously (i.e., the transmitter's range has decreased) or the remote receiver does not function at all, the batteries should be checked. It is important that the remote receiver batteries are fully charged, providing combined output voltage of at least 4.5volts. The transmitter should operate with as little as 2.5 volts battery power. NOTE: Extensive use of the SERVO MOTOR setting will reduce the receiver's battery life significantly.

TROUBLE SHOOTING

If you encounter problems with your fireplace system, the problem may be with the fireplace itself or it could be with the SR 1001TH-1 remote system. 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:

1. Make sure the batteries are correctly installed in the RECEIVER. One reversed battery will keep receiver from operating properly.
2. Check battery in TRANSMITTER to ensure contacts are touching (+) and (-) ends of battery. Bend metal contacts in for tighter fit.
3. Be sure RECEIVER and TRANSMITTER is within 20 to 25-foot operating range.
4. Keep RECEIVER from temperatures exceeding 120° F. Battery life shortened when ambient temperatures are above 115° F.
5. If RECEIVER is installed in tightly enclosed metal surround, the operating distance will be shortened.
6. Clear Codes: Memory in the receiver might be full if the learn button is pressed too many times. If this happens it will not allow any more codes to be learned and no audible beep will be heard. To clear memory, place the receiver slide switch into the REMOTE position. Press the learn button and release after 10 seconds. You should hear three (3) long audible beeps indicating all codes have cleared. You can now "learn" the transmitter to the receiver as described in the General Information Section.

SPECIFICATIONS

BATTERIES: Transmitter 12V - (A23)

Remote Receiver 6V - 4 ea. AA 1.5 Alkaline

FCC ID No.'s: transmitter - K9L1001; receiver - K9L3301RX

Operating Frequency: 303.8 MHZ

Canadian ISC ID No.'s: transmitter - 2439 102 728; receiver - 2439A-3301RX

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.

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.



Santa's Helper is a unique and specialized device designed to save time and effort. Every Christmas brings the challenge of plugging in the lights on the tree. But this year can be different. Simply plug the remote directly into a standard 110 household electrical outlet and plug your light directly into the receiver. You can even use an extension cord for convenience. Then with a

simple push of the button on the transmitter, your lights are turned on and off with ease.

From as far away as 100 feet, the radio frequency controls only what is plugged into the receiver. With over 255 security codes, no other appliances will be affected. And best of all, you don't even have to point the remote at the receiver.

Features:

- 110 VAC - input
- 2 prong polarized plug
- 110 VAC - output
- 2 prong polarized receptacle
- 1000 Watts of rated power or 1/4 HP motor
- Transmitter is battery operated (12 Volt included)
- 255 Security Code
- 100 feet of Operational Distance
- All Radio Frequency
- UL and FCC Approved



888-672-8929 | 888-672-8024 (FAX)
9230 CONSERVATION WAY | FORT WAYNE, INDIANA 46809

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