

# SKYTECH

Model: SP1001TH

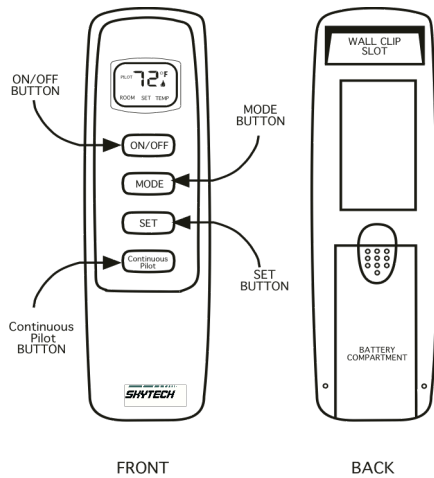
## OPERATING INSTRUCTIONS

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

### INTRODUCTION

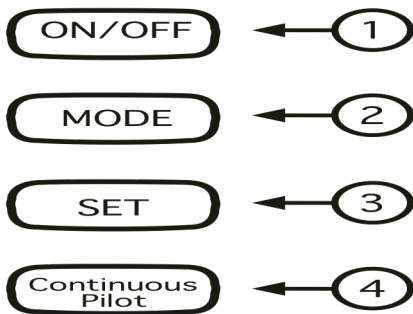
This transmitter operating range is approximately 20-feet. The transmitter operates on one of 1,048,576 security codes that are programmed into the transmitter at the factory; this transmitter operates on radio frequencies with non-directional signals. The receiver for this transmitter is built into the AF-4000MOD-1 module.

### TRANSMITTER



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

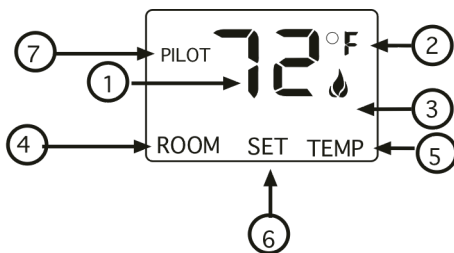
Before using the transmitter, install the (2) AAA transmitter batteries into the battery compartment. (Use caution that batteries are installed in the proper direction)



### KEY SETTINGS

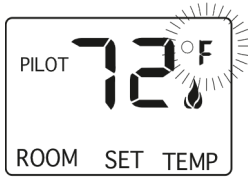
- 1. ON/OFF** - Manually turns ON or OFF position
- 2. MODE** - Changes Manual to Thermo Mode.
- 3. SET** - Sets temperature in Thermo mode.
- 4. CONTINUOUS PILOT** - Activates the Continuous Pilot

### LCD - Liquid Crystal Di



- 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 while setting the desired temperature in the thermo operation.
- 7. PILOT** Appears in the Continuous Pilot mode.

## SETTING ° F / ° C SCALE



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

- Press the ON/OFF key and the MODE 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 release the ON/OFF key and the appliance flame will come on. During this time the LCD screen will show ON, after 3 seconds the LCD screen will default to display room temperature and the word TEMP will show. **(Flame icon will appear on the LCD screen in ON mode)**

### OFF OPERATION

Press the ON/OFF key and the appliance flame will shut off. During this time the LCD screen will show OF, after 3 seconds the LCD screen will default to display room temperature and the word “TEMP” will also show on the screen. **(Flame icon will not appear on the LCD screen in OFF mode)**

## THERMOSTAT FUNCTION

### SETTING DESIRED ROOM TEMPERATURE

This remote control system can be thermostatically controlled when the transmitter is in the THERMO mode. 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.

**NOTE: When the word ROOM is displayed on the screen the transmitter is in the thermo mode.**

### 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 45° to 99° then restart over at 45°) Next 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.



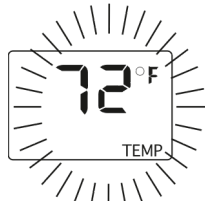
SCREEN WHILE DEPRESSING ON KEY



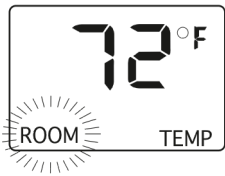
SCREEN AFTER 3 SECOND DEFAULT



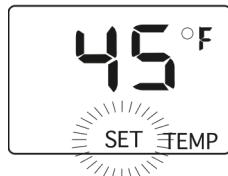
SCREEN WHILE DEPRESSING OFF KEY



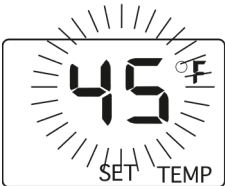
SCREEN AFTER 3 SECOND DEFAULT



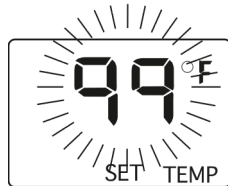
SCREEN AFTER DEPRESSING MODE KEY



SCREEN WHILE DEPRESSING SET KEY

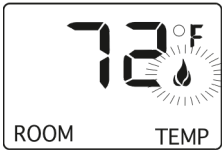


SCREEN AT LOWEST THERMO SETTING



SCREEN AT HIGHEST THERMO SETTING

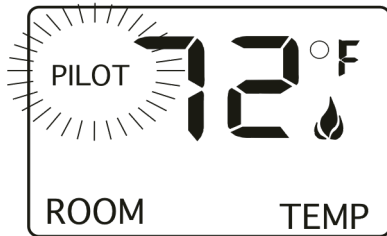
## TO DISENGAGE THERMO MODE



SCREEN IN THE THERMO "ON" MODE



SCREEN IN THE THERMO "OFF" MODE



SCREEN IN THE CONTINUOUS PILOT MODE



SCREEN IN THE "CP" MODE

Press and release the MODE key or press the ON/OFF key to OFF 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 99<sup>0</sup> Fahrenheit (32<sup>0</sup> Celsius) and the lowest temperature is (45<sup>0</sup> Fahrenheit (6<sup>0</sup> Celsius)

## CONTINUOUS PILOT FEATURE

This feature allows you to change from a spark to pilot system to a standing pilot system for direct vent appliances during Cold Climate to keep the firebox warm.

To operate the CONTINUOUS PILOT FEATURE do the following.

### ON OR OFF OPERATION

Press and release the CONTINUOUS PILOT key.

**NOTE:** The word PILOT will appear on the LCD screen in ON mode)

## CP (CHILDPROOF) FEATURE

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)

- To activate the "LOCK-OUT" feature, press and hold the ON/OFF key and the SET 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/OFF button and the SET key 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 key 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.

## OPERATIONAL NOTES:

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 +/- 2<sup>0</sup> F (1<sup>0</sup> C) between SET temperature and ROOM temperature, which determines when the fireplace will be activated. This function is pre-set at the factory.

The transmitter has ON and 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 ON or OF 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.

**NOTE:** The AF-4000MOD-1 will only respond to the transmitter when the 2-position slide button on the module is in the

REMOTE position. If the system does not respond to the battery transmitter on initial use, see LEARNING TRANSMITTER TO RECEIVER, and recheck battery positions in the remote receiver.

### **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 MODE:

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

### **THERMO- SAFETY FEATURE – AF-4000MOD MODULE (T/S –RX)**

There is a THERMO- SAFETY feature that is built into the receiver of the AF-4000MOD-1 module. This feature is temperature- activated and provides an extra margin of safety when the module is operating where ambient temperatures exceed 150<sup>0</sup> F degrees inside the module case.

The THERMO-SAFETY feature, in the AF-4000MOD-1 module, operates in the following manner, when the appliance is in operation. The module is thermally protected from extreme heat conditions. Heat can have negative effect on the operation of the module's microprocessors.

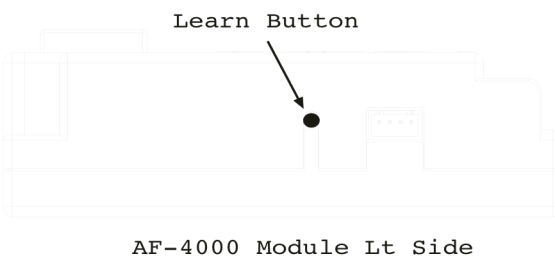
When the ambient temperature at the THERMISTOR, inside the module case, reaches 150<sup>0</sup> F, the THERMISTOR will automatically shut the appliance down and the module will begin emitting a series of 2 "beeps", every 4 seconds. When the ambient temperature, at the module, drops between 130<sup>0</sup> F and 150<sup>0</sup> F, the user can reactivate the appliance by pushing the ON H/L key on the transmitter. The flame icon must display on the LCD screen. When the ON H/L key is pressed to ON, the THERMISTOR "resets" itself and the appliance will begin operating again. However, the "beeping" will continue, if the ambient temperature remains between 130<sup>0</sup> F and 150<sup>0</sup> F. This "beeping" alerts the user that the module should be checked.

When the temperature drops below 130<sup>0</sup> F, the "beeping" will cease, providing the user has "reset" the THERMISTOR by pushing the ON H/L key to ON to operate the appliance. Allow sufficient time for the receiver to cool below 130<sup>0</sup> F, and then press ON H/L key to stop beeping.

### **LEARNING TRANSMITTER TO RECEIVER**

Each transmitter can use one of 1,048,576 unique security codes. It will be necessary to program the AF-4000MOD-1 to LEARN the security code of the transmitter upon initial use. When matching security codes, be sure the slide button on the AF-4000MOD-1 is in the REMOTE position; the code will NOT "LEARN" if the slide switch is in the OFF position. Program the AF-4000MOD-1 to LEARN the security code by pushing in the LEARN button on the side of the AF-4000MOD-1 and then pressing any key on the transmitter. A change in the beeping pattern, at the receiver, indicates the transmitter's code has been programmed into the module. When an existing module is matched to a new transmitter, the new security code will overwrite the old one. The remote system is ready for use.

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



## **BATTERY LIFE**

Life expectancy of alkaline batteries in the SP1001TH should be at least 12 months. Check and replace transmitter 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 the transmitter batteries should be checked. The transmitter should operate with as little as 2.5 volts battery power.

## **SPECIFICATIONS**

BATTERIES: Transmitter (2) 1.5 volt AAA t batteries

FCC ID No.'s: transmitter - K9LSP1001TH

Operating Frequency: 303.8 MHZ

Canadian IC ID No.'s: transmitter – 2439A-SP1001TH

### **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**

(855) 498-8324 or (260) 459-1703

**CANADIAN INQUIRIES**

(877) 472-3923

For Sales: (888) 672-8929

WEBSITE: skytechpg.com

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

# 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:

- o Name, Address, Telephone Number of Owner
- o Date of Purchase, Proof of Purchase
- o Model Name, Date Code of Product and any relevant information or circumstances, concerning installation, mode of operation and/or 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.

Print information and detach at dotted line for return to: Skytech, 9230 Conservation Way, Fort Wayne, IN 46809

Telephone: (888) 672-8929

### Warranty Information

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

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

Customer Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_

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

Back of Remote Date Code Sample

13	●	1	2	3	4	5	6
14		7	8	9	10	11	12

1-12 is Month Product was Made

13&14 is Year Product was Made

Sample date code is 1311

**Please send a Proof of Purchase (original receipt) copy along with your warranty form.**

# 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 120VAC 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, 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.

**Skytech Products Group**  
9230 Conservation Way  
Fort Wayne, IN 46809  
1-(888) 672-8929  
1-(888) 672-8024 Fax  
E-mail : [order@skytechpg.com](mailto:order@skytechpg.com)