

Model: SP1001H/LTH

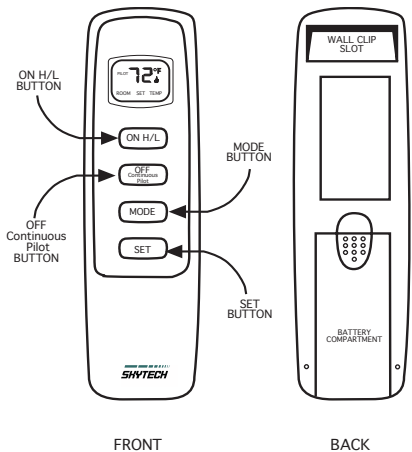
OPERATING INSTRUCTIONS

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

INTRODUCTION

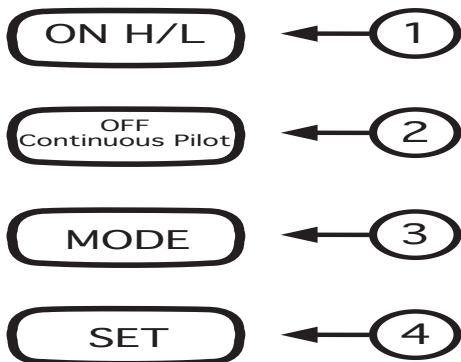
This transmitter operating range is approximately 20-feet. The transmitter operates on one of 1,048,576 security codes that are programmed into the transmitter at the factory; this transmitter operates on radio frequencies with non-directional signals. The receiver for this transmitter is built into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

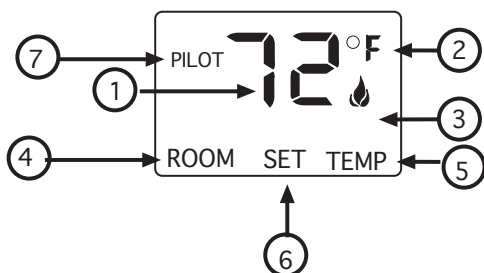
Before using the transmitter, install the (2) AAA transmitter batteries into the battery compartment. (Use caution that batteries are installed in the proper direction)



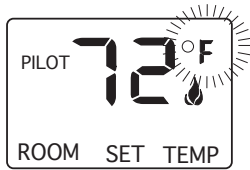
KEY SETTINGS

- 1. **ON H/L** - Turns unit to ON and operates the flame control HI or LO.
- 2. **OFF CONTINUOUS PILOT** - Shuts the unit OFF and activates the continuous pilot on feature
- 3. **MODE** - Changes unit from manual mode to thermo mode.
- 4. **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 while setting the desired temperature in the thermo operation.
- 7. **PILOT** Appears in the Continuous Pilot mode.



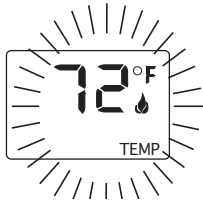
SETTING ° F / ° C SCALE

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

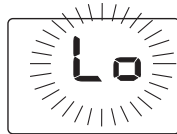
- Press the ON H/L key and the OFF CONTINUOUS PILOT key on the transmitter at the same time. This will change from ° F to ° C. Follow this same procedure to change from ° C back to ° F.



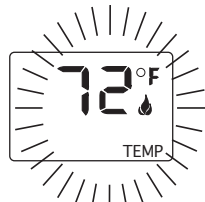
SCREEN WHILE DEPRESSING ON KEY



SCREEN AFTER 3 SECOND DEFAULT



SCREEN WHILE DEPRESSING OFF KEY



SCREEN AFTER 3 SECOND DEFAULT

MANUAL FUNCTION

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

ON – HI FLAME OPERATION

Press and release the ON H/L key the appliance flame will come ON and flame on HI.

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 the LCD screen in ON mode)**

ON – LO FLAME OPERATION

Press and release the ON H/L key the appliance flame will stay ON and flame on LO.

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. **(Flame icon will appear on the LCD screen in ON mode)**

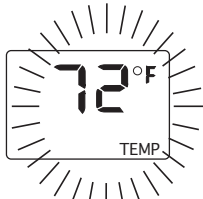
NOTE: If this SP1001H/LTH transmitter is used with the DC motor drive HI/LO flame control, press and hold the ON H/L key to raise or lower the flame height.

OFF OPERATION

Press the OFF Continuous Pilot 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)**



SCREEN WHILE DEPRESSING OFF KEY



SCREEN AFTER 3 SECOND DEFAULT

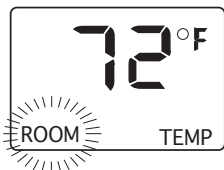
THERMOSTAT FUNCTION

SETTING DESIRED ROOM TEMPERATURE

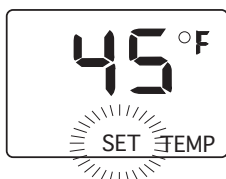
This remote control system can be thermostatically controlled when the transmitter is in the THERMO mode. To set the THERMO MODE and DESIRED room temperature,

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

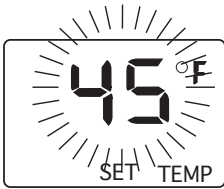
NOTE: When the word ROOM is displayed on the screen the transmitter is in the thermo mode.



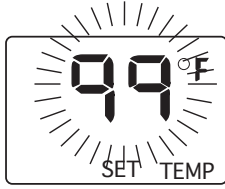
SCREEN AFTER DEPRESSING MODE KEY



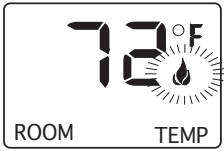
SCREEN WHILE DEPRESSING SET KEY



SCREEN AT LOWEST THERMO SETTING



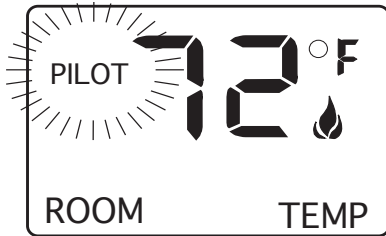
SCREEN AT HIGHEST THERMO SETTING



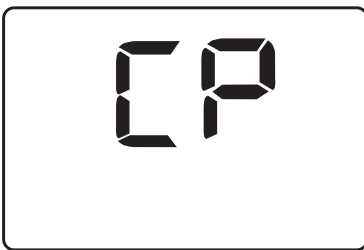
SCREEN IN THE THERMO "ON" MODE



SCREEN IN THE THERMO "OFF" MODE



SCREEN IN THE CONTINUOUS PILOT MODE



SCREEN IN THE "CP" 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^o to 99^o then restart over at 45^o) 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.

TO DISENGAGE THERMO MODE

Press and release the MODE key or press the OFF CONTINUOUS PILOT 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 99^o Fahrenheit (32^o Celsius) and the lowest temperature is 45^o Fahrenheit (6^o Celsius)

CONTINUOUS PILOT FEATURE

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

To operate the CONTINUOUS PILOT FEATURE do the following.

ON OR OFF OPERATION

Press and hold the OFF CONTINUOUS PILOT key for approximately 5 seconds, until the word "PILOT" appears on the LCD screen.

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

CP (CHILDPROOF) 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 H/L key and the MODE key 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 H/L key and the MODE 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 +/- 2⁰ F (1⁰ 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 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 MODULE, and recheck battery positions in the remote receiver.

THERMO UPDATING FEATURE –TRANSMITTER – (T/S –TX)

This 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-4000 MOD module. This feature is temperature- activated and provides an extra margin of safety when the module is operating where ambient temperatures exceed 150⁰ F degrees inside the module case.

The THERMO-SAFETY feature, in the AF-4000 MOD 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.

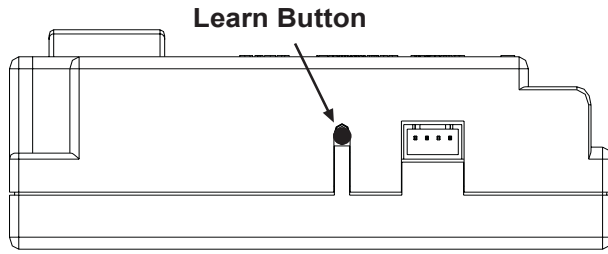
When the ambient temperature at the THERMISTOR, inside the module case, reaches 150⁰ F, the THERMISTOR will automatically shut the appliance down and the module will begin emitting a series of 2 "beeps", every 4 seconds. When the ambient temperature, at the module, drops between 130⁰ F and 150⁰ F, the 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 130⁰ F and 150⁰ F. This "beeping" alerts the user that the module should be checked.

When the temperature drops below 130⁰ 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 130⁰ F, and then press ON H/L key to stop beeping.

LEARNING TRANSMITTER TO MODULE

Each transmitter uses a unique security code. It will be necessary to press the LEARN button on the AF-4000MOD (module) 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 module to accept the transmitter security code, be sure the slide button on the module is in the REMOTE position; the module will **not** LEARN if the slide switch is in the OFF position. The LEARN button is located on the side of the module; inside the small hole labeled LEARN. Using a small screwdriver or end of a paperclip gently press and release the black LEARN button inside the hole. When you release the LEARN button the module will emit an audible "beep". After the module emits the beep press ANY button on the transmitter and release. The module will emit several beeps indicating that the transmitter's code has been accepted into the module.

The microprocessor that controls the security code matching procedure is controlled by a timing function. If you are unsuccessful in learning 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.



AF-4000 Module Lt Side

BATTERY LIFE

Life expectancy of alkaline batteries in the SP1001H/LTH 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 bateries

Operating Frequency: 303.8 MHZ

FCC ID No.'s: transmitter - K9LSP1001TH

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 warranty information please contact the gas appliance supplier that this product is installed on