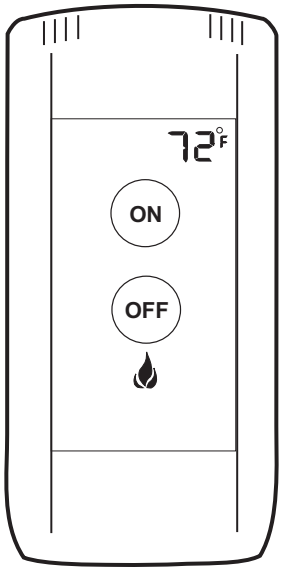
SKYTECH
PRODUCTS GROUP

MODEL: 5010

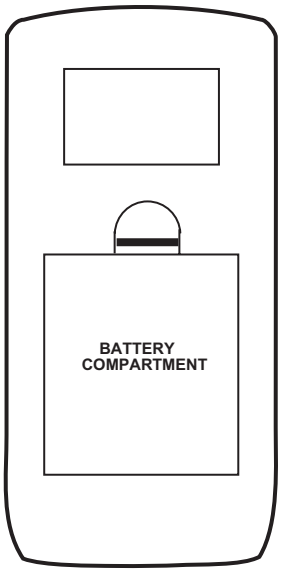
IF YOU CANNOT READ OR UNDERSTAND THESE INSTALLATION INSTRUCTIONS DO NOT ATTEMPT TO INSTALL OR OPERATE

INTRODUCTION

This SKYTECH remote control system was developed to provide a safe, reliable, and user-friendly remote control system for gas heating appliances. The system can be operated manually from the transmitter. The system operates on radio frequencies (RF) within a 20-foot range using non-directional signals. The system operates 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.



FRONT

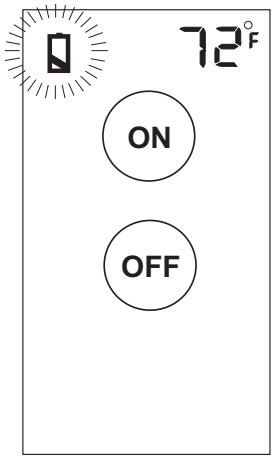


BACK

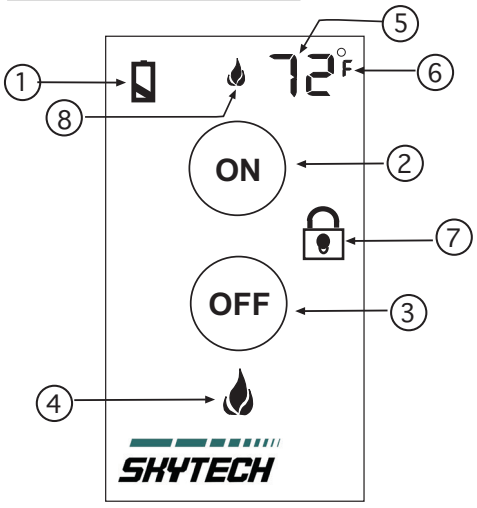
The transmitter operates on (4) AAA-size 1.5V batteries. It is recommended that ALKALINE batteries always be used for longer battery life and maximum operational performance. ***IMPORTANT:*** New or fully charged batteries are essential for proper operation of the multi-function transmitter. Insert (4) AAA-size 1.5 V batteries into the battery compartment on the back of the transmitter, positioning the (+) and (-) ends of the batteries as indicated on the casing. When the batteries are i nserted, the screen at right (with similar numbers) will display.

Note: On initial start up if a LOW battery icon appears on the screen, check the position of the batteries.

Note: Due to the sensitive temperature-monitoring components in the transmitter, it may be necessary to allow the transmitter to stabilize to room temperature before accurate room temperatures are displayed on the screen. If the transmitter is activated from a severe cold condition, it can take up to fifteen minutes for accurate temperature readings to appear.

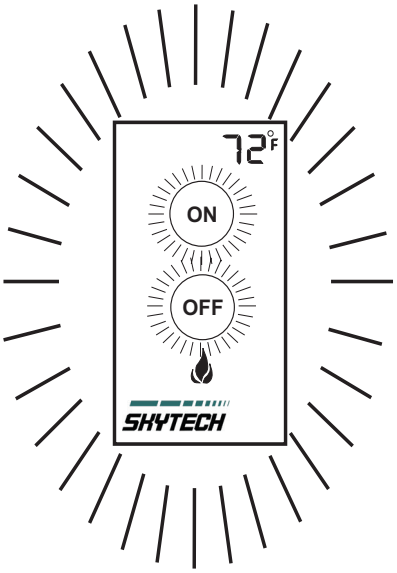


LCD DESCRIPTION

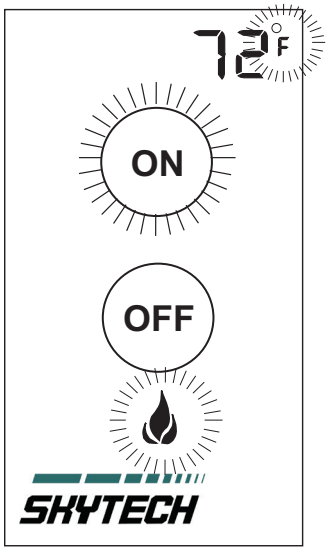


1. **BATTERY ICON** - Indicates low battery. Replace batteries within 2- weeks.
2. **ON**- Indicates the appliance is ON – Flame Icon
3. **OFF**- Indicates the appliance is OFF – NO Flame Icon
4. **FLAME ICON** – Indicates burner/valve in operation.
5. **ROOM** – Indicates CURRENT room temperature.
6. **°F** -Indicates degrees Fahrenheit (ºC indicates degrees Celsius).
7. **LOCK** – Child lock out.
8. **RF SIGNAL ICON** –Appears when the RF signal is being transmitted.

OPERATION FUNCTIONS



1. Touch anyplace on the LCD screen and the blue back light will light up and stay ON for (5) seconds.
2. Press the ON button on the LCD screen of the transmitter to turn the appliance ON.
3. Touch the OFF button on the LCD screen of the transmitter to turn the appliance OFF.

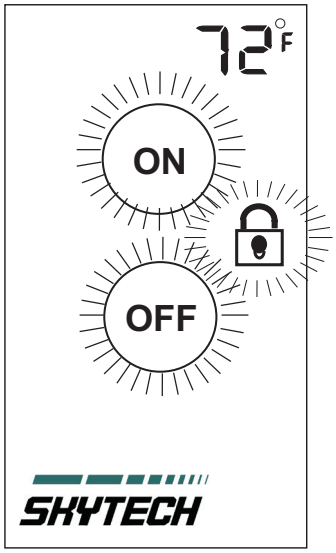


SETTING °F / °C SCALE

The factory setting for temperature is °F. To change this setting to °C, first press and hold the ON button and the FLAME ICON on the transmitter LCD screen at the same time for (5) seconds. Follow this same procedure to change from °C back to °F.

CHILDPROOF "LOCK-OUT" OPTION

This remote control includes a CHILDPROOF "LOCK-OUT" feature that allows the user to "LOCK-OUT" operation of the appliance from the TRANSMITTER when it is in the "LOCK OUT" mode.



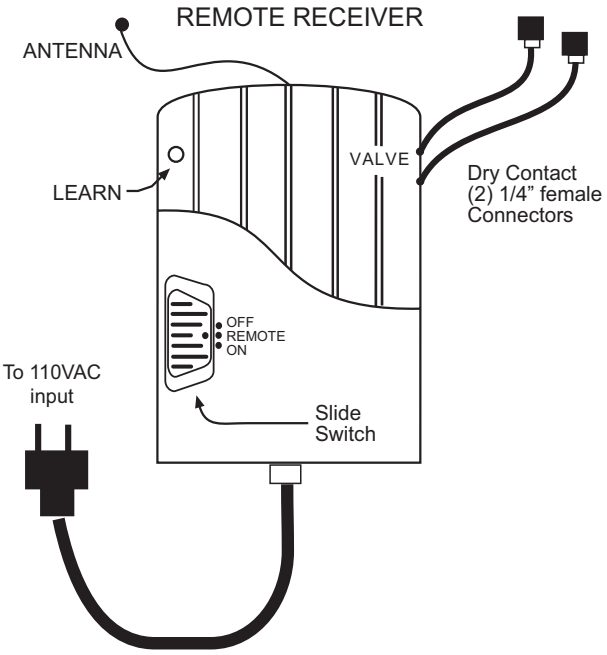
1. To activate the "LOCK-OUT" feature, press and hold the ON and OFF buttons on the LCD screen at the same time, for 5 seconds. The lock icon will appear on the LCD screen.
2. To disengage the "LOCK-OUT", press and hold the ON and OFF buttons on the LCD screen at the same time, for 5 seconds. The lock icon will disappear on the LCD screen and the system will return to its normal operating condition.

NOTE: If the appliance is already operating in the ON mode engaging the "LOCK-OUT" will not cancel the operating MODE. Engaging the "LOCK-OUT" prevents only the manual operation of the TRANSMITTER.

RECEIVER

The receiver requires electricity to operate. 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 top of the receiver (This switch is to be used during a power outage to operate the appliance manually). 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.

This 5010 remote control system is simplified system and can be used to control a Millivolt gas valve without any additional relays or components.



LOCATING THE RECEIVER

PROTECTION FROM EXTREME HEAT IS VERY IMPORTANT. Like any piece of electronic equipment, the remote receiver should be kept away from temperatures exceeding 1300 F. Exposure to extreme temperatures can damage the electronic components or cause the plastic case to become deformed and is not covered under warranty.

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 the SKYTECH remote control or any of its components will void the warranty and may be pose a fire hazard.

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.

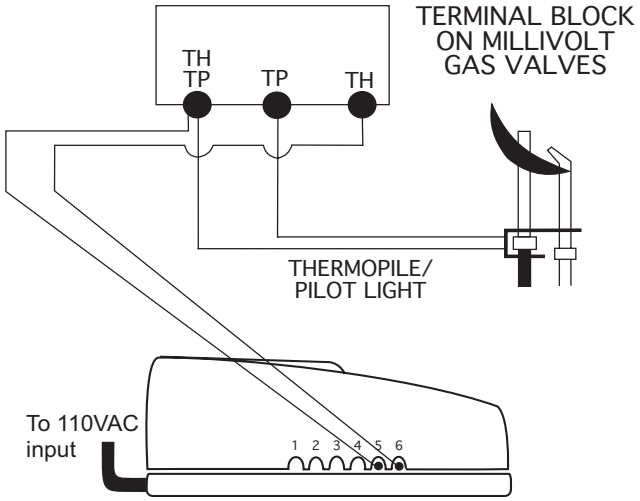
WIRING INSTRUCTIONS

A qualified electrician or a gas technician who is familiar with the gas appliance and gas valves that will be operated by this remote should install the remote control system. Incorrect wiring connections **WILL** cause damage to the gas valve or electronic module operating the gas appliance and may also damage the remote receiver.

WIRING MILLIVOLT VALVES

The remote receiver is to be connected to the Millivolt valve. Connect one of the (2) 18 gauge wires from the 5010 receiver to the TH terminal and the other to the THTP terminal on the terminal block on the Millivolt gas valve.

Operation of the remote receiver is similar to that of a thermostat in that both turn the gas valve on and off based on input signals. A thermostat’s input signals are different temperatures. The remote receiver’s input signals come from the transmitter.



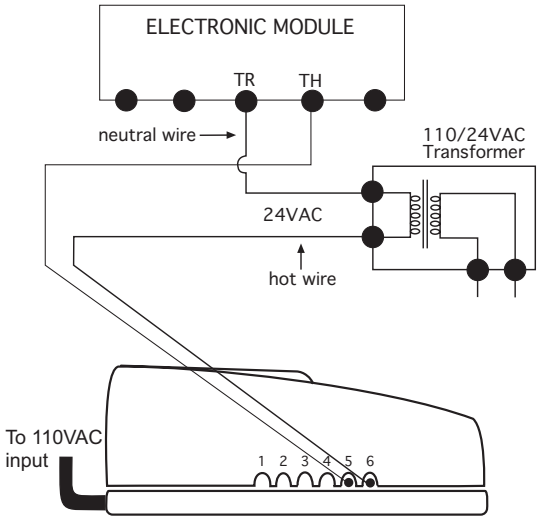
REMOTE RECEIVER

WIRING ELECTRONIC SPARK IGNITION VALVES

Most electronic systems operate on a 110-120 VAC/24VAC power transformer used to power the system electronic ignition module and electronic gas valve, which can be controlled by the 5310 remote receivers as, illustrated.

NOTE: THE 110-120 VAC/24VAC, transformer may be purchased from your appliance dealer, or an electronic parts distributor.

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.



REMOTE RECEIVER

SYSTEM CHECK

MILLIVOLT VALVES

Light your gas appliance following the lighting instructions that came with the appliance. Confirm that the pilot flame is lit; and the control knob on the gas valve is in the ON position.

- 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 flame should extinguish (the pilot flame will remain on).
- Slide the button to REMOTE (the center position), then press the ON button on the transmitter to change the system to ON. The main gas flame should ignite.

ELECTRONIC SPARK IGNITION VALVES

- Slide the 3-position button on the remote receiver to the ON position. The spark electrode should begin sparking to ignite the pilot (the pilot may ignite after only one spark). 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 (the center position), then press the ON button on the transmitter to turn 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.

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 in 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 and release the black LEARN button inside the hole. When you release the LEARN button the receiver will emit an audible “beep”. After the receiver emits the beep press the transmitter ON button and release. The receiver will emit several beeps indicating that the transmitter’s code has been accepted into the receiver.

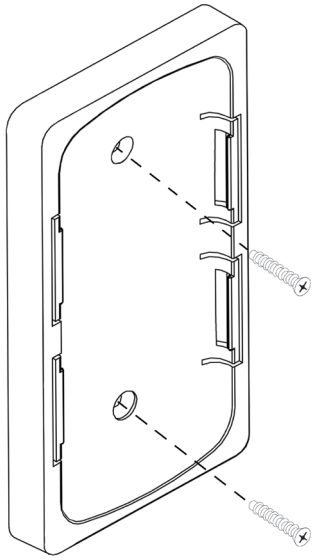
The microprocessor that controls the security code matching procedure is controlled by a timing function. If you are unsuccessful in matching the security code on the first attempt, wait 1-2 minutes before trying again – this delay allows the microprocessor to reset its timer circuitry – and try up to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

BATTERY LIFE

Life expectancy of the alkaline batteries in the transmitter should be at least 12 months. Check and 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 and provides continuous output voltage of a least 5.3 volts. The length of the wire between the remote receiver and gas valve directly affects the operating performance of the remote system. The longer the wire, the more battery power is required to deliver signals between the remote receiver and the gas valve. Recommended length is no longer than 20 feet. The transmitter should operate with as little as 5.3 volts battery power.

TRANSMITTER WALL MOUNT

The transmitter can be placed on a wall using the mount 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 with the screws provided.



TROUBLESHOOTING

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

- Make sure the batteries are correctly installed in the RECEIVER. One reversed battery will keep receiver from operating properly.
- Check battery in Transmitter to make sure contacts are touching (+) and (-) ends of battery.
- Be sure RECEIVER and Transmitter is within 20 to 25-feet of operating range.
- Keep RECEIVER from temperatures exceeding 130° F. Battery life shortened when ambient temperatures are above 130° F.
- If RECEIVER is installed in tightly enclosed metal surround, the operating distance will be shortened.

SPECIFICATIONS

BATTERIES: Transmitter 6V – 4ea. AAA 1.5 Alkaline
Remote Receiver 6V – 4ea. AA 1.5 Alkaline
FCC ID No.'s: transmitter K9L5001; Canadian ISC ID No.'s: transmitter –2439A-5001
Operating Frequency: 303.875MHZ

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