

# RCB07

## Standard Thermostatic On/Off Remote Control

### INSTALLATION AND OPERATING INSTRUCTIONS

This wireless thermostatic on/off/ remote control system provides a safe, reliable, and user-friendly remote control for millivolt valve gas appliances. The system can be thermostatically or manually turned on and off with the transmitter. Always check the appliance home owner's manual for additional information, or warnings regarding accessory installation before connecting this remote control system.

Carefully inspect the contents for shipping damage. If any parts are missing or damaged, immediately contact the dealer from whom you purchased the kit. Do not attempt to install any part of the kit unless all parts are in good condition. Please keep these instructions for future reference.

#### CONTENTS OF KIT

Description	Quantity
Transmitter	1
Battery Alkaline AAA (for Transmitter)	2
Battery Alkaline AA (for receiver)	4
Receiver Box	1
Slide Button-Black (On/RS/Off)	1
Slide Button-White (On/RS/Off)	1
Wall Cover Plate-Black	1
Wall Cover Plate-White	1
Battery Door- Black	1
Battery Door-White	1
Plug-In Wiring Assembly – 22” Inches	1
Installation Instructions	1
#6 3/4 Screws (for Wall Cover Plate)	2
#8 Screws (for fireplace system control covers)	2
Heat shield for receiver	1

NOTE:Due to the sensitive temperature monitoring components in the transmitter,it is necessary to allow the transmitter to stabilize to room temperature before accurate room temperature are displayed, If the transmitter is activated from a severe cold condition allow 15 minutes for accurate temperature reading to appear on the LCD.

#### WARNING

##### Important Safety Information

- Read this manual thoroughly prior to installing, programming or operating any remote control.
- This remote control system is designed for use with a millivolt or 24V gas valve system. Do not use this remote control system on applications with voltages above 24 Volts AC/DC and 1 amp current.
- This remote control system requires two (2) “AAA” and four (4) “AA” alkaline batteries to power the transmitter and receiver.
- Wiring must conform to appliance requirement and building codes/ordinances as required by local and national code authorities having jurisdiction.
- Do not short (or jumper) across the gas valve terminals to test the remote control installation. This could damage the unit and void the warranty.
- This remote control system should only be used as described in this manual. Any other use is prohibited and will void the warranty.

## FEATURES/SPECIFICATIONS

- Easy Access Thermostatic Control
- Battery Powered Transmitter and Receiver
- Low battery Indication
- Child Proof Lock-out
- 16 Security Codes
- 6 hour Shut Down (Optional)
- Quick Disconnect Wiring Assembly
- Reset Button

### WARNING

Turn appliance OFF and allow to cool before installing or servicing. **DO NOT** connect 110-120 VAC wiring to the millivolt gas control valve. The remote operator must be installed exactly as outlined in these instructions. Read all instructions completely before attempting installation. Follow instructions carefully during installation. Any modification of components will void the warranty and may cause a fire hazard.

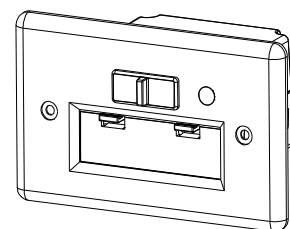
### WARNING

Turn appliance OFF (at the appliance or remote receiver) if you are away from your house for a long period of time.

## INSTALLATIONS

### *Receiver:*

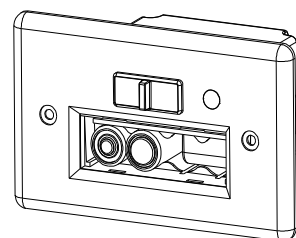
The remote receiver may be wall mounted or installed in the appliance per the appliance homeowner's manual. **Refer to the Homeowner's Manual for special installation instructions.** If wall mounted, the remote receiver must be installed in a junction box with cover plate provided. Failure to follow the installation instructions found in the appropriate Homeowner's Manual will void the warranty and may cause a fire hazard.



### Installing Batteries:

The remote receiver uses four (4) "AA"- size batteries. To install batteries,

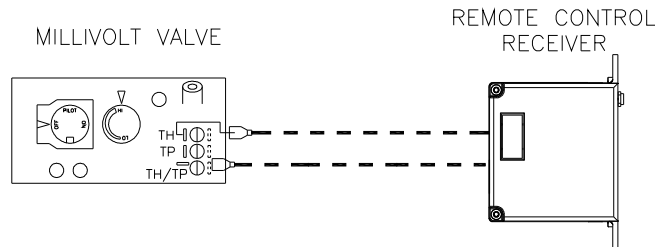
1. Open the battery door by pressing the two tabs located on the door.
2. Install the batteries as indicated in the receiver cover.
3. Close the battery door until the door tab snaps in place.
4. To install the receiver into a wall junction box, snap wall cover plate to the receiver and install the receiver with the screws provided to the junction box.
5. The batteries should be replaced at least once every 6 months or when the battery indicator flashes.



### Connecting the Receiver to your appliance:

This system comes with an 22 inch wire assembly. Insert the white terminal to the back of the receiver. The terminal wire block can only be installed one way. Do not force the terminal plug onto the receiver.

Connect the wiring terminal two (2) ¼" female spade terminals to the appliance. Refer to the appropriate Homeowner's Manual for proper wiring connections to the appliance. Your appliance may have other options to connect wiring from receiver. Connect to the two (2) 1/4" female spade wiring terminals. Wire can be no longer than 20 feet.



GENERIC WIRING DIAGRAM FOR RECEIVER. THE RECEIVER WIRE NEEDS TO CONNECT TO THE VALVE AT THE "TH" AND "TH/TP" JUNCTION

### **WARNING**

**Make sure that the wires do not contact the appliances any place other than at the terminals. Exposure to temperatures higher than 250°F(105°C) may cause the receiver to malfunction or cause a fire hazard.**

### ***Transmitter:***

#### Installing Batteries:

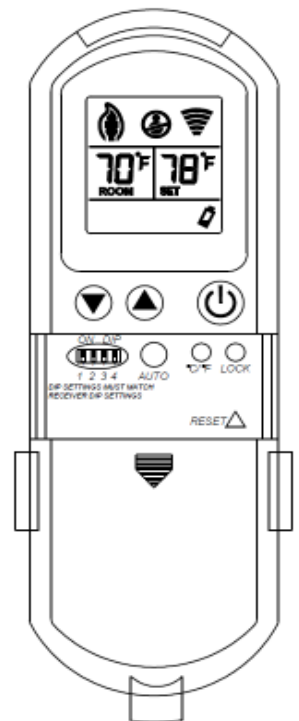
The remote transmitter uses two (2) "AAA" batteries. To install batteries,

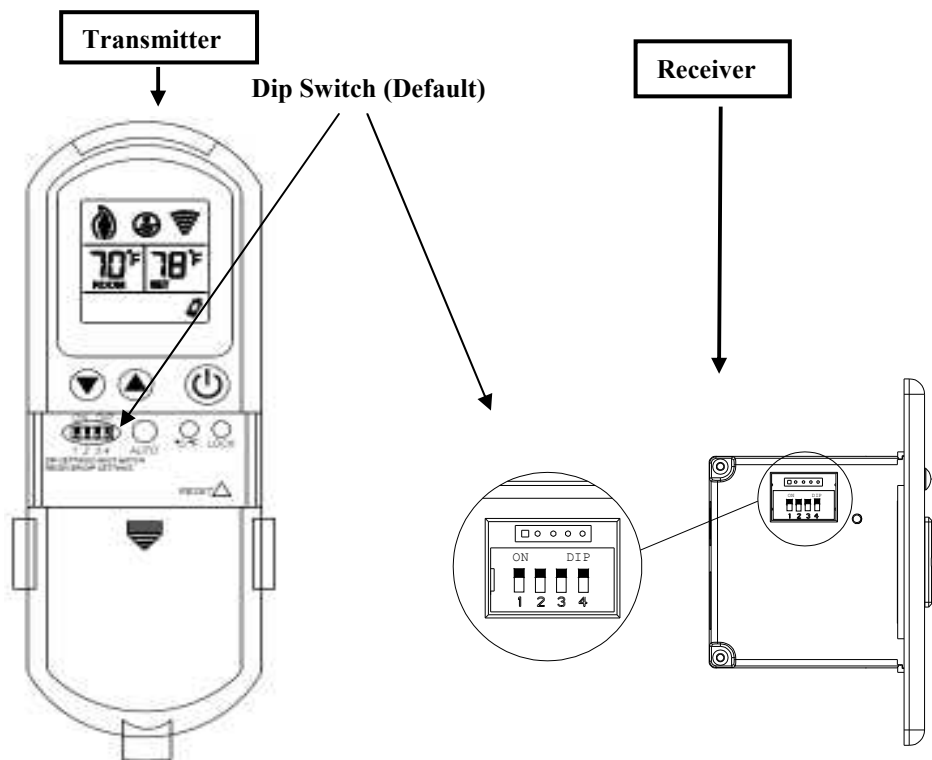
1. Press down the battery door and remove the battery door.
2. Install uses two (2) "AAA" batteries batteries as indicated on transmitter.
3. Close the battery door by snapping in place.
4. The batteries should be replaced when the battery indicator flashes.
5. When both batteries are installed, the transmitter will initialize for 10 seconds and then is ready for use.

#### Setting Privacy (DIP) Switch on Receiver and Transmitter:

The remote receiver and transmitter privacy (DIP) switches are preset at the factory. In the event of activation or interference from other nearby transmissions, reset the code using the following procedure:

1. Slide the code switches on the transmitter or receiver to your choice of ON or OFF position. Switches #1, #2, #3 and #4 are preset to "ON" for both the transmitter and receiver.
2. The switches on the transmitter and receiver must match in order for the system to work.
3. To check, touch either the On or Off button on the transmitter and the receiver indicator light will blink. If not repeat step 2.
4. The system is now ready to operate.





#### Reset Button:

The reset button can be used to reset the transmitter if the transmitter is not working properly. The reset button is located closed to the battery door cover. Press the reset button and the transmitter will reset and initialize for a few seconds before it can be used.

**WARNING**

**Do not use two (2) or more remote control systems in the same area with the same dip switch settings, as they will communicate with each other. This may cause the appliances to malfunction.**

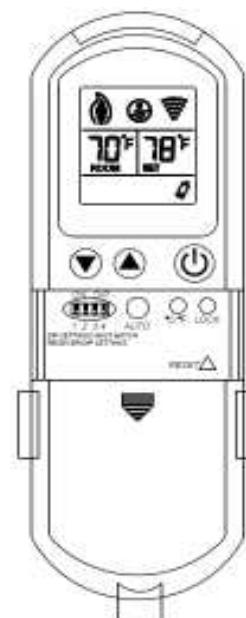
## **OPERATIONS:**

### ***Transmitter:***

#### General:

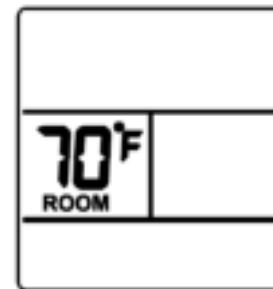
The RCB07 Remote Control has two (2) operating modes: Manual and Thermostatic. The control system can be set to temperature ranges between 45°F and 90°F.

The transmitter will operate the remote receiver from 1 foot to a maximum of 30 feet. The distance is reduced when batteries are low or when the receiver is inside a metal enclosure.





### Initial start up:



1. After initial power up or when RESET button is pressed, the transmitter is reset. The reset button is located close the battery door.
2. During system reset, all features of the LCD will be visible. After one second, the LCD will be initialized. A typical reset display is shown right. After reset the transmitter is operating. The room temperature is shown as right.

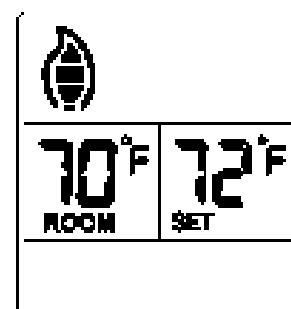


### Manual Mode:

1. Press the  button once to turn on the appliance.
2. Press the  button once again to turn off the appliance.
3. Press °C/°F button to select between °C and °F display.

### Thermostatic mode:

1. Press the AUTO button to enter the thermostatic mode. “SET” temp icon will appear on the lower LCD screen
2. In thermostatic mode, press the  button or  button to set the desired set temperature.
3. Once the setting is completed, the transmitter will automatically turn on the fireplace when the room temperature is below the set temperature and turn off the appliance when the room temperature is above the set temperature within 1 degree.
4. There will be a slight delay in the response of the unit (on/off) to a temperature. Room temperature is monitored every 3 minutes.
5. Press the Auto button again to exit the thermostatic mode (Return to Manual Mode). The “SET” temp icon will disappear on the lower LCD display. The transmitter will be in the manual on/off mode

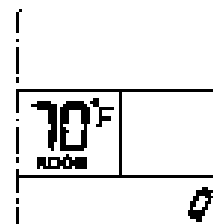


### Backlight

The backlight color will change according to the current temperature range. If the room temperature is over **78°F(26°C)** , then the backlight will be Red. If room temperature is less than **61°F(16°C)** , the backlight will be Green. Backlight will be Blue if the room temperature is between **61-78°F(16-26°C)** .When any key is pressed the backlight will turn on for 6 seconds and then turn off.

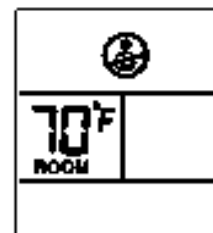
### Low-battery detection:

1. When the battery voltage of remote less than 2.2V, the low battery icon will flash. The battery will be checked every minute. If the battery voltage of remote is less than 2.0V, the remote will send the flame off command to the receiver and turn off the flame.
2. The transmitter will not operate with low batteries. Change the battery before the battery is too weak for normal operation. **TURN THE UNIT OFF BEFORE REPLACING BATTERIES.**



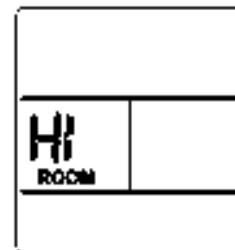
### Child-proof protection:

1. Press and hold LOCK buttons simultaneously for 3 seconds to enter child-proof mode.
2. The transmitter will not work until child-proof mode is deactivated by pressing the ON and OFF buttons simultaneously for 3 seconds again to exit child-proof mode.



### Transmitter Thermal Shutdown:

1. If transmitter measures a room temperature exceeding 99 degrees Fahrenheit, the LCD will display "HI" and the transmitter will turn off the appliance.
2. Transmitter will not function until the room temperature has dropped below 99 degree Fahrenheit.
3. If transmitter measures a room temperature less than 40 degrees Fahrenheit, the LCD will display "LO" and **NO SIGNAL will be send to turn on the appliance.**



### ***Receiver:***

#### Slide Switch:

1. ON position: the system will remain on until the slide switch is placed in the OFF or RS position.
2. RS position: the system will only operate if the remote receiver receives a signal from the transmitter.
3. OFF position, the system is off. **The slide switch should be placed in the OFF position if you will be away for an extended period of time.** If the remote receiver is mounted out of children's reach, the OFF position also functions as a safety device by both turning the system off and rendering the receiver inoperable.

### **TESTING YOUR NEW REMOTE CONTROL SYSTEM**

1. Light your gas appliance following the appliance lighting instructions that come with the appliance. Confirm that the pilot light is on; it must be in operation for the remote control to operate the main gas valve. Appliance control knob must be in the ON position. Appliance ON/OFF switch must be in OFF position.
2. Slide the 3 position button on the remote receiver to the ON position. The main gas flame should ignite.
3. Slide the button to OFF. The flame should extinguish (the pilot light will remain on).
4. Slide the button to RS (the center position), then press the transmitter to turn the system to ON. The main gas flame should ignite.
5. Press the transmitter to turn the system to OFF. The flame should extinguish (the pilot light will remain on).

### **TROUBLESHOOTING**

Symptom	Causes	Action
LED light on receiver blinking or battery icon on LCD on transmitter.	Low Battery	Replace batteries.
Display is blank	Low Battery	Check battery installation and replace batteries.
Display shows "funny"	Low Battery	Press Reset button at the back of the transmitter.
Appliance does not come on.	1. Wiring / electrical connections faulty	1. Slide the switch to ON, if appliance comes ON, wiring is not the cause. If appliance does not come on, check wiring connections.
	2. DIP (Privacy) switch setting on transmitter does not match receiver	2. Make sure the transmitter and receiver have the same DIP switch settings.
	3. Transmitter measures temperature exceeding 99 degrees and shows "HI" on LCD display.	3. Move transmitter to a cooler place and wait until temperature drops below 99 degree.
	4. Distance between the transmitter and receiver is more than 20 feet	4. Make sure the operating distance is less than 20 feet
Receiver cannot receive signal.	Receiver is installed in an enclosure	1. Make sure the receiver is not inside a tight enclosure.

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IC WARNING:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device

ADVERTENCIA IC

Cet appareil contient des émetteurs / récepteurs exemptés de licence conformes aux RSS (RSS) d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes :

- (1) Cet appareil ne doit pas causer d'interférences.
- (2) Cet appareil doit accepter toutes les interférences, y compris celles susceptibles de provoquer un fonctionnement indésirable de l'appareil.