

# Ambient<sup>®</sup>

TECHNOLOGIES<sup>®</sup>

## RCB

Basic On/Off Remote Control

### INSTALLATION AND OPERATING INSTRUCTIONS

This basic on/off remote control system provides a safe, reliable, and user-friendly remote control for milli-volt valve gas appliances. The system can be manually turned on and off with the transmitter. Always check with the home owner's manual of the appliance for additional information, 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 this manual for future reference.

#### CONTENTS OF KIT

Description	Quantity
Transmitter	1
Battery Alkaline AAA (for Transmitter)	3
Battery Alkaline AA (for receiver)	4
Receiver (Assembly) consists of:	
Receiver Box	1
Slide Button-Black (On/RS/Off)	1
Wall Cover Plate-Black	1
Wall Cover Plate-White	1
Slide Button-White (On/RS/Off)	1
Battery Door-White	1
Plug-In Wiring Assembly – 22" Inches	1
Velcro (Loop and Hook)	1
Installation Instructions	1
#6 3/4" Screws, Zinc (for Wall Cover Plate)	2
#8 Screws (for fireplace system control covers)	2

#### FEATURES/SPECIFICATIONS

- Battery Powered Transmitter and Receiver
- Easy Access Front Battery Door
- Pre-Programmed for Quick Installation
- 16 Security Codes
- Quick Disconnect Wiring Assembly
- Low battery indicators for Transmitter and Receiver



#### 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 three (3) "AAA" and four (4) "AA" alkaline batteries to power the transmitter and receiver.
- 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.



**WARNING:** Turn appliance OFF and allow to cool before installing or servicing. DO NOT connect 110-120 VAC wiring to the milli-volt 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.

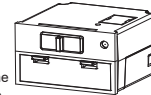


**WARNING:** Turn appliance OFF (at the appliance or remote receiver) if you are away from your house for a long period of time.

#### INSTALLATIONS

##### Receiver

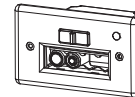
The remote receiver may be wall mounted or installed in the appliance per the appliance homeowner's manual. Refer to the Homeowner's Manual for special installation instructions. If wall mounted, the remote receiver must be installed in a junction box with cover plate provided. Failure to follow the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



##### Installing Batteries

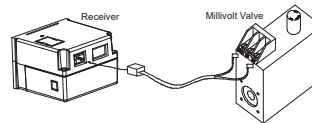
The remote receiver uses four (4) "AA" batteries. To install batteries:

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. Install slide switch back to the receiver stem.
6. The batteries should be replaced at least once every 6 months or when the battery indicator flashes.



##### Installing Wire

This system comes with a 22 inch pre-assembled 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. Follow the homeowner's manual for connecting the two (2) 1/4" female spade terminals to the milli-volt valve. Connect to the two (2) 1/4" female spade wiring terminals.



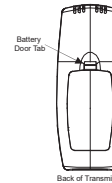
**WARNING:** Make sure that the wires do not contact the appliances any place other than at the terminals. Exposure to temperatures higher than 250°F (105°C) may cause the receiver to malfunction or cause a fire hazard.

#### Transmitter

##### Installing Batteries

The remote transmitter uses three (3) "AAA" batteries. To install batteries:

1. Press down the battery door tab and lift up and remove the battery door.
2. Install the batteries as indicated on transmitter.
3. Close the battery door by snapping in place.
4. The batteries should be replaced at least once every 6 months or when the battery indicator flashes.

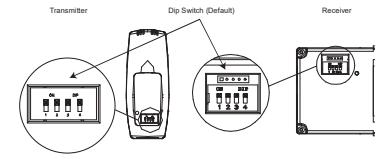


**WARNING:** Do not use two (2) or more remote control systems in the same area with the same dip switch settings, as they will communicate with each other. This may cause the appliances to malfunction.

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

The remote receiver and transmitter privacy (DIP) switches are pre-set 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. The system is now ready to operate.



#### OPERATIONS

##### Transmitter

##### General

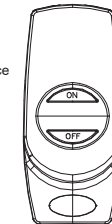
The RCB Remote Control provides the manual fireplace on/off operation. The transmitter will operate the remote receiver from 1 foot to a maximum of 30 feet. The distance is reduced when batteries are low or when the receiver is inside a metal enclosure.

##### Initial Start-up

After initial power up the transmitter is ready for use.

##### Manual Mode

1. Press the ON button once to turn on the appliance.
2. Press the OFF button to turn it off.



##### Low Battery Detection

When the battery voltage drops to a certain level, the LED on the transmitter will blink until the battery expires. Change the battery before the battery is too weak for normal operation. TURN THE UNIT OFF BEFORE REPLACING BATTERIES.



## Receiver

### Low Battery Detection

When the battery voltage drops to a certain level, which is checked once a minute, the low-battery LED will start to blink and the receiver will automatically turn off the appliance. The receiver will not function again until fresh batteries are installed.

### 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 detects 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. Connect the wiring terminal to the appliance. Refer to the appropriate Homeowner's Manual for proper wiring connections.
2. Light your gas appliance following the lighting instructions that came 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 pilot control knob must be in the ON position. Appliance ON/OFF switch must be in OFF position.
3. Slide the 3 position button on the remote receiver to the ON position. The main gas flame should ignite.
4. Slide the button to OFF. The flame should extinguish (the pilot light will remain on).
5. Slide the button to RS (the center position), then press the ON button on the transmitter to turn the system to ON. The main gas flame should ignite.
6. Press the OFF button on the transmitter to turn the system off. The flame should extinguish (the pilot light will remain on).

## TROUBLESHOOTING

Symptom	Causes	Action
LED light on receiver blinking	Low battery	Check battery installation and replace batteries.
Appliance does not come on.	1. Wiring/electrical connections faulty  2. DIP (Privacy) switch setting on transmitter does not match receiver.  3. Distance between the transmitter and receiver is more than 30 feet.	1. Slide the switch to ON. If appliance comes on, wiring is not the cause. If appliance does not come, check wiring connections. 2. Make sure the transmitter and receiver have the same DIP switch settings. 3. Make sure the operating distance is less than 30 feet.
Receiver cannot detect signal.	Receiver is installed in an enclosure.	Make sure the receiver is not located inside a tight enclosure.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## WARRANTY

This warranty gives you specific legal rights and you may also have other rights that vary from state to state or province to province. Answers to any questions regarding our limited warranty may be obtained by writing our corporate offices.

Ambient Technologies warrants each new Ambient Technologies remote control against any defects that are due to faulty material or workmanship to the original owner, for a period of five years after the original date of purchase. This warranty and our liability does not apply to batteries, nor does it include damage to merchandise or the remote control resulting from accident, alteration, neglect, misuse, improper installation or any other failure to follow Ambient Technologies installation and operating instructions.

Ambient Technologies agrees to repair or replace at its option any Ambient Technologies remote control under warranty provided it is returned postage prepaid to our warranty facility in a padded carton within the warranty period, with proof of the original date of purchase and a brief description of the malfunction. This limited warranty does not include the cost of removal or re-installation. All Ambient returns must have a return authorization number from Ambient Technical Support.



**WARNING:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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