

## Basic On/Off Remote Control – 120VAC INSTALLATION AND OPERATING INSTRUCTIONS

This basic 120 VAC on/off remote control system provides a safe, reliable, and user-friendly remote control for millivolt 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 booklet for future reference.

### CONTENTS OF KIT

Description	Qty
Transmitter	1
Battery Alkaline AAA (for Transmitter)	3
Receiver (Assembly) consists of :	1
Receiver Box with 120 VAC Adapter	
Slide Button-Black (On/RS/Off)	
Wall Cover Plate-Black	1
Plug-In Wiring Assembly – 22" Inches	1
Velcro (Loop and Hook)	1
Installation Instructions	1
#8 Screw for sheet metal, Black	2

### FEATURES/SPECIFICATIONS

- Battery Powered Transmitter
- Compact 120 VAC Adapter with 30" wire
- Low Battery Indication for Transmitter
- 16 Security Codes
- Quick Disconnect Wiring Assembly
- Optional 6 hour Shutdown Timer on 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 gas valve system. Do not use this remote control system on applications with voltages above 30 Volts AC.
- This remote control system requires three (3) "AAA" batteries to power the transmitter and 120 VAC to power the 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 not recommended and will void the warranty.

WARNING

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

### INSTALLATIONS

#### Remote 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.

#### Power up Receiver

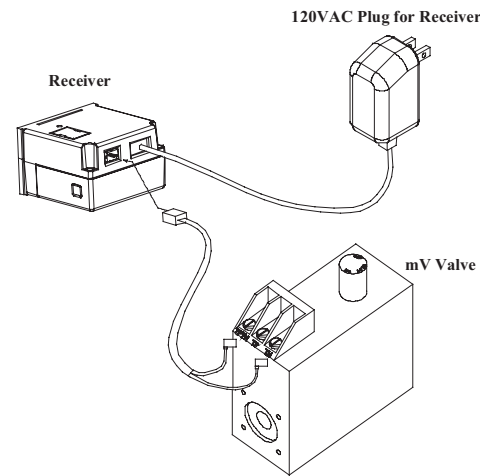
The receiver is powered by plugging into a polarized 120VAC outlet.

#### Installing Wire

This system comes with an 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 millivolt valve.

For applications longer than 22 inches, use 18 gauge wire, 105°C rated, with as few splices as possible. Connect to the two (2) 1/4" female spade wiring terminals. Wire can be no longer than 20 feet.



WARNING

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

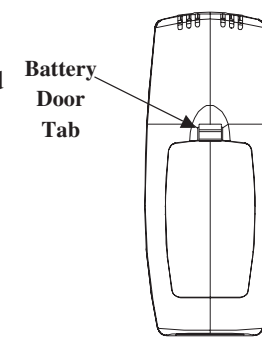
#### Remote Transmitter

#### 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 the transmitter cover.

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.

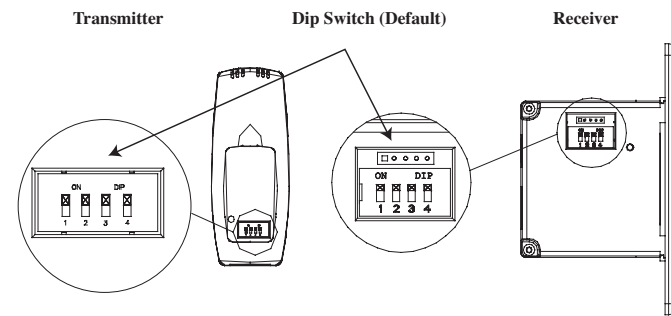


Back of the Transmitter

#### 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. The system is now ready to operate.
4. See optional 6 hour shutdown on receiver section.



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.

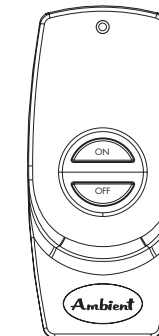
### OPERATIONS

#### Transmitter

#### General

The RCBE remote control system is an On/Off remote control.

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



#### Initial Start-up

1. After initial power up, the transmitter is ready for use.

#### Manual Mode

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

#### Low Battery Detection

1. 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.**

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.

## Receiver

### Optional 6 Hour Shutdown

1. The receiver comes preset from the factory with a 6 hour shutdown from its last ON operation. This is done to prevent the appliance from continuing to run if unattended.
2. You may disable this feature if you wish. To disable, change the receiver privacy (DIP) switch #1 ONLY to the OFF position. Make sure the transmitter privacy (DIP) switches are set the same. Follow the instructions on Setting Privacy (DIP) Switch on Receiver & Transmitter discussed early in this manual.
3. By disabling this feature, your appliance may continue to run unattended.

### 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
1. LED light on transmitter blinking	1. Low Battery	1. Replace batteries. Change batteries every 6 months.
4. Appliance does not come on after pressing [ON] on transmitter	1. Wiring / Electrical Connections	1. Slide the switch to ON, if appliance comes ON, wiring is not the cause. 2. If appliance does not come on, check wiring connections. 3. Check to make sure the receiver is plug into 120 VAC outlets.
	2. Privacy (DIP) switch setting on transmitter does not match receiver	1. Make sure the transmitter and receiver has the same DIP switch settings.
	3. Distance between the transmitter and receiver is more than 30 feet	1. Make sure the operating distance is less than 30 feet
5. Receiver cannot receive signal.	1. Receiver is installed in an enclosure	1. Make sure the receiver is not located inside an enclosure.
	2. 120VAC is not connected	2. Connect receiver adaptor to 120VAC power supply.

**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.

**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:

- Reorient 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.

Ambient Technologies  
149 Cleveland Drive  
Paris KY 40361

**FOR TECHNICAL SUPPORT  
CALL 800-398-6195**

50D0075 Rev 2 Mar 2006