

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

#8 Screws (for fireplace system control covers)

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 temperatures are displayed. If the transmitter is activated from a severe cold condition, allow 15 minutes for accurate temperature readings 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 three (3) "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
- Quick Disconnect Wiring Assembly
- Reset Button



Quantity

3

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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.

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WARNING: Turn appliance OFF (at the appliance or remote receiver) if you are away from your house for a Iong 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" batter-

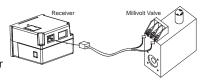
- ies. To install batteries:
- 1. Open the battery door by pressing the two tabs located on the door.
- 2. Install the batteries as indicated in the receiver cover.
- 3. Close the battery door until the door tab snaps in place.
- 4. To install the receiver into a wall junction box, snap wall cover plate 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.

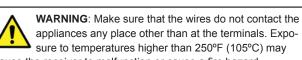
Connecting the Receiver to your Appliance

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) 1/4" 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.





Transmitter

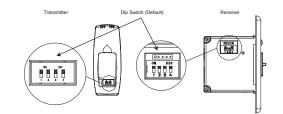
Installing Batteries

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

- 1. Press down the battery door tab and lift Door Tab 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.
- 5. Press down the battery door tab and lift up and remove the battery door.
- 6. When both batteries are installed, the transmitter will initialize for 10 seconds and then is ready for use.
- 7. The batteries should be replaced at least once every 6 months or when the battery icon indicator flashes.

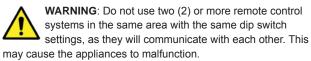
Setting Privacy (DIP) Switch on Receiver and Transmitter The remote receiver and transmitter privacy (DIP) switches are preset at the factory. In the event of activation or interference from other nearby transmissions, reset the code using the following procedure: 1. Slide the code switches on the transmitter 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.

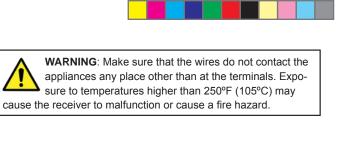


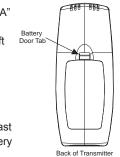
Reset Button

The reset button can be used to reset the transmitter if transmitter is not working properly. The reset button is located behind the battery door cover. Using a paper clip, press the reset button and the transmitter will reset and initialize for 10 seconds before it can be used.









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OPERATIONS

Transmitter

General

The RCST 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 inside the battery door.
- 2. During system reset, all features of the LCD display will be visible. After one second, the LCD displays will be initialized. A typical reset display is shown beside. Note that the temperature scale is degree F.
- 3. Press On button to select between °C and °F display. It will exit setting mode automatically after 10 seconds if no key is pressed. The transmitter 70' will send an Off signal after reset.
- 4. After reset the transmitter is operating in manual mode. The room temperature is shown as above.

Manual Mode

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

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 ON/▲ button or OFF/ ▼ 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 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 8 seconds and then turn off.

Low Battery Detection

- 1. When the battery voltage of remote is less than 3.4V, the low battery icon will flash. The battery will be checked every minute. If the battery voltage of remote is less than 3.2V, 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

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- 1. Press and hold ON and OFF buttons simultaneously for 3 seconds to enter child-proof mode.
- 2. The transmitter will not work until childproof 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 sent to turn on the appliance.

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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 pilot 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 ianite.
- 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 receiv- er blinking or battery icon displaying on transmitter.	Low battery	Replace batteries.
Display is blank.	Low battery	Check battery instal- lation and replace batteries.
Display looks "fun- ny."	Low battery	Press "Reset" button at the back of the transmitter.

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.

Symptom	Causes	Action
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 wir- ing 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.
	 Transmitter measures temperature exceeding 99°F and shows "HI" on LCD display. Distance between the transmitter and 	 Move trans- mitter to a cooler place and wait until temperature drops below 99°F. Make sure the operating distance is
	receiver is more than 20 feet.	less than 20 feet.
Receiver cannot detect signal.	Receiver is installed in an enclosure.	Make sure the re- ceiver is not 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.

WARRANTY

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

Ambient Technologies warrants each new 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 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 returns must have a return authorization number from Ambient Technical Support.

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