

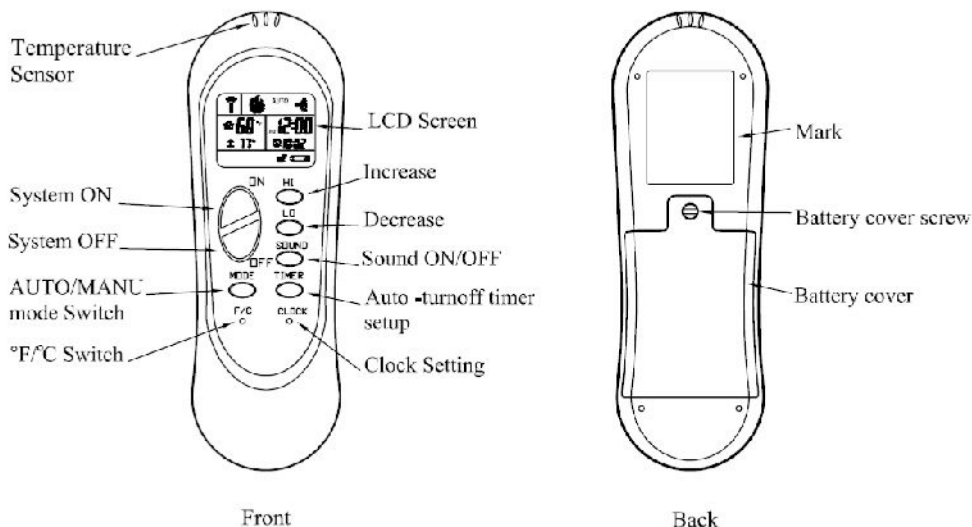
TRX-25

RF Gas-Fireplace Remote Control Manual

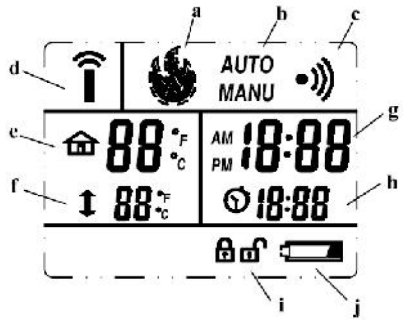
1. Function Instruction

- This RF gas-fireplace remote control system consists of the transmitter TRX-25 and receiver LGT202RX.
- Two modes-Automatic and Manual.
- Fire and Firecrackler device can be controlled on/off manually in Manual mode.
- The system turns on/off the fire and adjusts the ambient temperature to the Set temperature in Automatic mode. The available temperature range is 49°-99°F (9°-37°C).
- The system includes an auto-turnoff timer; the upper limit of the timer is 12 hours.
- The back lighting LCD screen shows the fire status, sound status, ambient temperature, setup temperature in Automatic mode, clock, auto-turnoff timer and low battery.
- Transmitter keypad child lock included in the system.
- The battery cover is designed to prevent inadvertent opening by children.
- The remote control address code can be changed at the transmitter. The new address code is then learned by the receiver. The available range of the address code is 1-250.
- Two types of receiver---LGT201RX-P panel mount and LGT201RX-W wall box mount;
- The receiver can turn on/off either a millivolt valve or a 24 volt valve.
- The receiver can turn on/off the Firecrackler (CF6) (optional attachment).
- The receiver turns off the fire automatically when the ambient temperature is too high.
- The receiver turns off the system automatically when it fails to receive signals.

2. Transmitter



2.1 Transmitter LCD screen:



a. The fire figure shows the status of the system and fire.

No Flame: System OFF.

: System ON, Fire OFF.

: System ON, Fire ON.

b. AUTO: Indicates that system is in automatic mode.

MANU: Indicates the system is in manual mode.

c. : Indicates the Sound (Firecrackler CF6) is ON.

d. : Indicates signal transmission.

e. : Indicates the ambient temperature.

f. : Indicates the Set temperature for the auto-temperature control.

g. AM/PM : Clock in AM/PM.

h. : Auto-turnoff timer.

i. : Keypad unlocked.

: Keypad locked, all keys disabled in this mode.

j. battery level.

: Indicates that the battery power level is normal.

: Battery low.

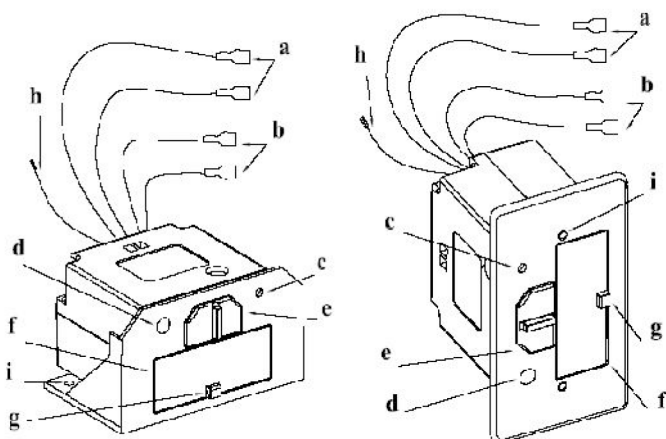
2.2 Transmitter Battery Installation

Remove the screw and the cover; insert two AA 1.5V alkaline batteries as shown in the illustration.

The battery life expectancy is about 1 year.

3. Receiver

Two mounting types: panel mount and wall box mount.



LGT202RX-P (Panel Mount)

LGT202RX-W (Wall box Mount)

a. Gas valve ON/OFF control wires (two white wires).

b. Firecrackler ON/OFF control wires (one blue and one black).

c. LEARN CODE button hole.

d. LOW BATTERY indicator.

e. OFF/REMOTE/ON switch.

f. Battery case.

g. Battery case catch.

h. Antenna

i. Installation screw hole (2)

3.1 Receiver Installation

Please review the manual and receiver installation requirements before installing the receiver. The receiver should be installed by a qualified electrician. Incorrect installation may result in remote control and valve damage or cause a fire.

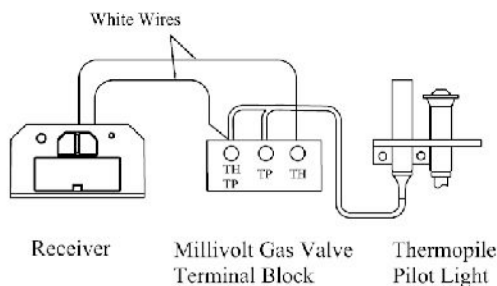
The receiver must be installed in an area where the temperature will not exceed 140 F (60 C) to avoid damage to the circuit and batteries.

The overheat protection circuit is activated and turns off the fire automatically when the ambient temperature is above 150 F (65 C).

The receiver cannot receive signals properly if too much metal is around it. Also there may be some “dead-angles” which may stop the reception of signals due to wave deflection. Should this occur, relocate the receiver.

The receiver can be connected to a millivolt valve or 24 volt valve as shown in the following illustrations:

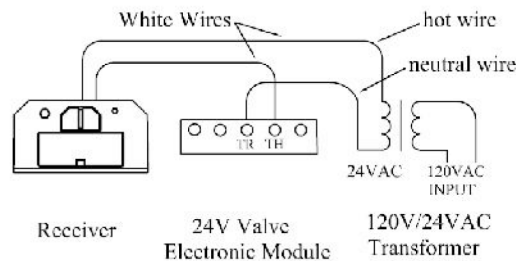
3.2 Millivolt Valve Wiring



Turn the **OFF/REMOTE/ON** switch to **OFF** position before wiring.

Connect one white wire to the TH terminal of the millivolt valve and the other white wire to the THTP terminal.

3.3 24V Valve Wiring

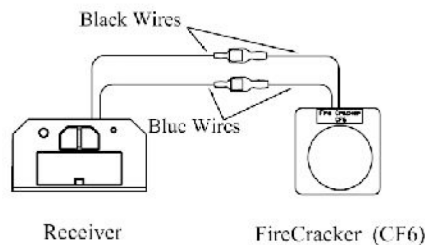


Turn the **OFF/REMOTE/ON** switch to **OFF** position before wiring.

The receiver must be connected in series between the 24V valve module and 24V transformer.

Connect one white wire to the “Hot” wire of the 24VAC transformer and the other white wire to the TH terminal of the control.

3.4 Firecrackler Device Wiring



Connect the blue wire of the receiver to the blue wire of the Firecrackler and the black wire of the receiver to the black wire of the Firecrackler .

Notice: Firecrackler (CF6) is an optional attachment.

3.5 Receiver Battery Installation

Turn the **OFF/REMOTE/ON** switch to **OFF** position. Press the battery compartment cover catch, the battery compartment ejects. Insert four AA 1.5V alkaline batteries as shown in the illustration, and then push the battery compartment back into the receiver. Press the key inside the Learn code hole with a pen point. The low battery indicator turns on when the battery installation is correct.

4. Operation

4.1 Communication Check

Turn the **OFF/REMOTE/ON** switch on the receiver to **REMOTE** position, and **10 seconds later**, press the **ON** or **OFF** key on the transmitter. The receiver will beep if the communication is correct. Otherwise, please check the battery installation or follow step 4.2 to 4.4.

4.2 Address Code Matching

Both transmitter and receiver must have the same address code in order to function. The range is 1-250. The address codes on the transmitter and receiver may not be the same if the receiver does not react to the signal sent by the transmitter. The receiver will need to learn the address code, see 4.3.

4.3 Receiver Address Code Learn

Turn the **OFF/REMOTE/ON** switch to **REMOTE** position; press the key inside the **LEARN CODE** hole with a pen point. Press the **ON** or **OFF** key on the transmitter when the receiver **LOW BATTERY** indicator turns on. The receiver will beep when address code is learned.

4.4 Changing the Address Code

When two remote systems are in close proximity with the same address code on both systems, they may interfere. The signals sent by one transmitter could be received by the receiver of the other system. Therefore the address code of one of them must be changed.

Press the **HI** and **LO** keys of the transmitter to be changed simultaneously for 5 seconds. Its address code shows on the LCD screen, such as **AD 99**. Press **HI** or **LO** key to change the address code within 3 seconds, then “Learn” the receiver to the new address code (see 4.3).

4.5 Clock Adjustment

Press the key inside the **CLOCK** with a pen point, the AM(or PM) figure flashes, then press **HI** or **LO** to adjust the clock. The AM(PM) figure stops flashing 3 seconds after the clock adjustment.

4.6 Fahrenheit and Centigrade Switch

Press the key inside the **F/ C** hole to switch between Fahrenheit and Centigrade, **F** or **C** shows on the LCD screen.

4.7 System Turn Off





Press the transmitter **OFF** key to turn off the system. In Off mode, no fire figure on the LCD screen, fire and sound are off.

In fire **OFF** status, the receiver turns off the gas valve.

In sound **OFF** status, the receiver turns off the Firecrackler device.

4.8 System Turn On



Press the transmitter **ON** key to turn on the system. In **ON** mode, the LCD screen shows fire figure


 or .  means the fire is off,  means the fire is on and the receiver turns on the gas valve.

4.9 Automatic and Manual Mode Selection

Press the **MODE** key of the emitter when the system is ON to select **AUTO** or **MANU** mode, to determine the automatic or manual temperature control.

4.10 AUTO Mode


In **AUTO** mode, the LCD screen shows the automatic Set temperature  **88**. This temperature may be adjusted by pressing **HI** or **LO** key. The available temperature range is 49 F-99 F (9 C-37 C). The system detects the ambient temperature every 60 seconds. The LCD screens shows  when the ambient

temperature is lower than the Set temperature, and  when then ambient temperature is higher than the Set temperature. The system controls the ambient temperature at the Set temperature by turning **ON** and **OFF** the fire alternately.




4.11 MANU Mode

In **MANU** mode, the fire is always on and the Set temperature is not displayed.


4.12 Sound


Press the **SOUND** key to turn ON/OFF the Firecrackler device when the fire is on, the LCD shows  while the Firecrackler is on.

4.13 System Auto-off Timer

Set up the auto-off timer when the system is on. Press **TIMER** key, and the LCD screen shows the setting time  **18:00**. Adjust the timer by pressing **HI** or **LO** key while  flashes. The upper limit is 12 hours.  stops flashing 3 seconds after the setup and countdown begins. The system turns off automatically when countdown is 0:00.

4.14 Keypad Child Lock

Lock the keypad: press **MODE** and **TIMER** key simultaneously for 3 seconds. The LCD screen shows . All keys are locked and disabled.

Unlock the keypad: press **MODE** and **TIMER** key simultaneously for 3 seconds. The LCD screen shows . All keys are unlocked and functional.

4.15 Lost Signal System Auto Off

The transmitter sends RF signals to control the fire and sound status of the receiver every 60 seconds. The receiver turns off the fire and Firecrackler if no signal is received for over 3 minutes.

4.16 Overheat Protection

The receiver turns off the fire when the ambient temperature is too high and the temperature inside the receiver is over 140 F (60 C) to protect the circuit and batteries.

4.17 OFF/REMOTE/ON Switch

If the receiver is at low battery status or remote control system fails, move the **OFF/REMOTE/ON** switch to **ON** or **OFF** position to turn on/off the fire and Firecrackler. In this status, remote control and the overheat protection is disabled.

4.18 Receiver Low Battery Status

The life expectancy of the receiver power is about 1 year with brand new batteries. Please insert new batteries when the receiver LOW BATTERY indicator flashes.

CAUTION:

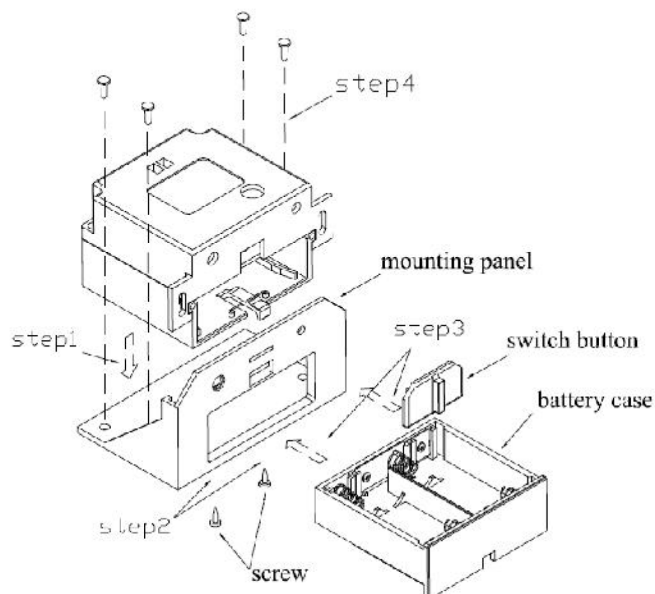
Check or replace both transmitter and receiver batteries annually

Turn receiver OFF/REMOTE/ON switch to OFF position when away from premises

5. Specifications

Radio frequency:	433.92MHz
Transmitter power supply:	2 AA-size 1.5V alkaline batteries
Receiver power supply:	4 AA-size 1.5V alkaline batteries
CF6 Firecrackler power supply:	3 AA 1.5V alkaline batteries.
Acceptable Transmitter working ambient temperature:	32-104°F (0-40°C)
Acceptable Receiver working ambient temperature:	32-140°F (0-60°C)
Effective remote control range:	over 20 feet (8 meters)
Receiver output control:	millivolt valve or 24 volt valve, CF6 Firecrackler (optional)

6. Panel Mount type Receiver--- LGT202RX-P, Mounting and Assembly



Step1: Slide the receiver into the mounting panel

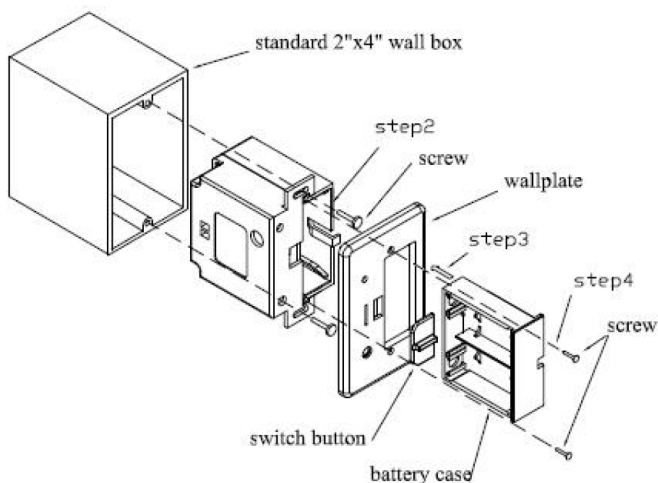
Step2: Fix the receiver to the mounting panel with 2 screws

Step3: Assemble the switch button and battery case to the receiver

Step4: Fix the receiver to the gas fireplace with screws

Step5: Wiring as step 3.2—3.4

7. Wall Box Mount type Receiver--- LGT202RX-W, Mounting and Assembly



Lead the gas-fireplace valve controlling wire and the firecrackler controlling wire into the 2"X4" wall box

Step1: Wiring as step 3.2—3.4

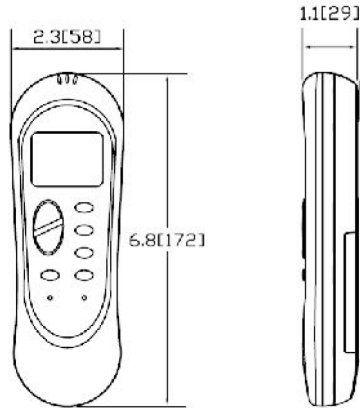
Step2: Fix the receiver in the standard 2"X4" wall box with 2 screws

Step3: Assemble the wallplate, switch button and battery case to the receiver

Step4: Fasten the wallplate to the receiver with 2 screws

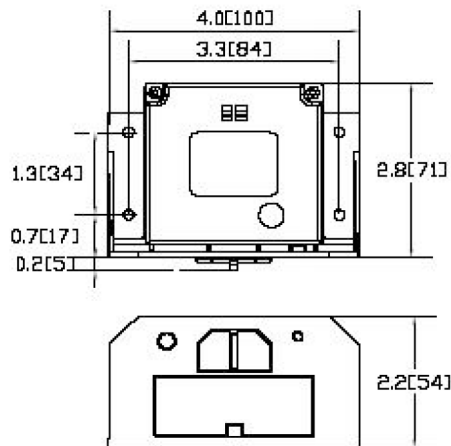
8. Dimensions

8.1 Transmitter

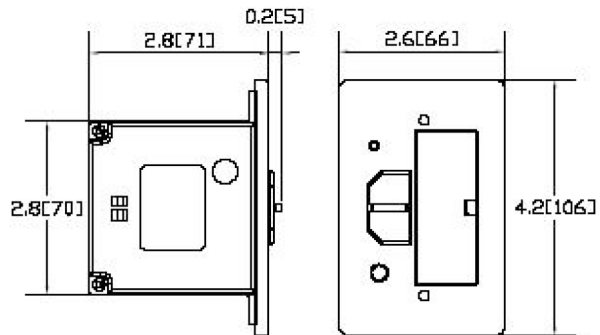


TRX-25

8.2 Receiver



LGT202RX-P (Panel Mount)



LGT202RX-W (Wall Box Mount)

NOTE: All the dimensions are expressed in inches[millimeters].

FCC REQUIREMENTS

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC REGULATIONS. THIS DEVICE IS SUBJECT TO THE FOLLOWING 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.**

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

FCC IDENTIFIER: VNJ202TX (LGT202TX Transmitter)

Hearth Products Controls Co.

Hearth Products Controls Co.
3050 Plainfield Rd., Dayton Oh. 45432

Product Support:
Orders@hpcfire.com

Contact Info:
Phone: 1-877-585-9800
info@hpcfire.com
hpcfire.com



HPCfire.com