



INSTALLATION & OPERATING INSTRUCTIONS

(Transmitter Model: S I T D C 0 1 + Receiver Model: RR01)

IF YOU CAN NOT READ OR UNDERSTAND THESE INSTALLATION INSTRUCTIONS, DO NOT ATTEMPT TO INSTALL OR OPERATE.

INTRODUCTION

This Durablow remote control system is to provide a safe and reliable control for gas heating appliances, such as fire fireplace. The system can be operated thermostatically or manually from the transmitter (remote handset). The system operates on radio frequencies (RF) within a 20-foot range and non-directional signals. The remote receiver box code must be matched to the transmitter prior to initial use (see LEARNING TRANSMITTER TO RECEIVER).

Read ALL sections and original manufacturer manual for safety installation before any action. These safety features shut down the system and appliance, such as fireplace when a potentially unsafe condition exists, such as high-heat.

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PACKING LIST:

Please note that this is a gas product. If you have any usage issues, please contact us via Amazon's in-site message or after-sales email. We only handle usage issues
After-sales email: fireglass@wolffar.com or XHburnerpan@163.com

1. Remote transmitter (1), Remote receiver box w/ 18" wire (1)
2. Wall mount cover plate (1), Switch box screw (2), Slide switch button (1)
3. Installation Instructions (1)



Fig. 1 Transmitter Handset

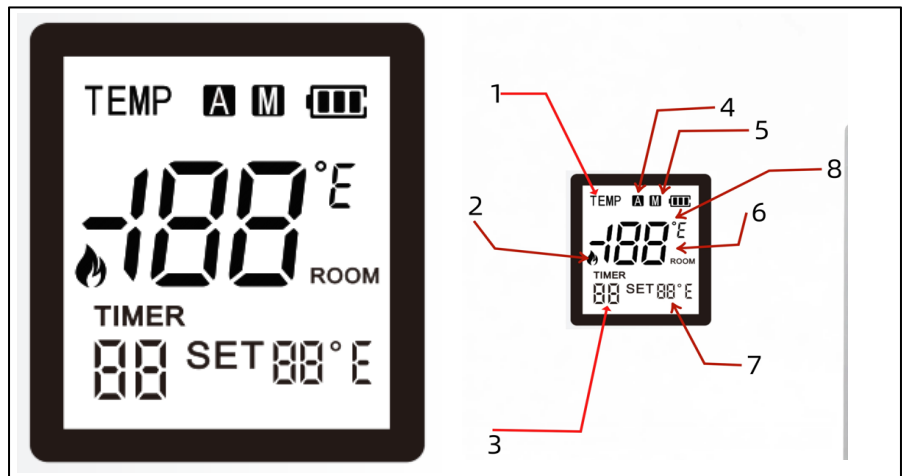


Fig. 2 LCD display on transmitter

1. TEMP Temperature indication.
2. FLAME Indicates burner/valve in operation
3. Hourly timing function
4. A: Thermostat function.
5. M: Manual function.
6. DISPLAY Indicates CURRENT room temperature.
8. °C to °F Temperature in degrees F or C.
7. Used for setting the temperature

BASIC TRANSMITTER FUNCTIONS & MODES

IMPORTANT: The transmitter requires two AAA-size 1.5V batteries (excluded). New (fully charged) batteries are required for proper functionality of the system. Insert batteries into the transmitter battery compartment on the back, positioning the (+) and (-) ends of the batteries as indicated on the casing. (Fig. 1) When the batteries are inserted properly, LCD will display initial numbers.

CAUTION: Due to the temperature-monitoring components in the transmitter, it is important to allow the transmitter to detect the room temperature before accurately displaying room temperatures on the screen. Normally it takes 5 to 15 minutes for every first time placing this transmitter in a new location / environment.

To begin the mode cycle (Fig. 3), press and release the MODE button (Fig. 1) until the LCD screen reads OFF (Fig. 4).

Step 1: Press the MODE button to manually turn **ON** the receiver (Fig. 5). Timer is available in this mode. The receiver will make sounds of quick BEEP X 2 (♪, ♪).

REMOTE RECEIVER BOX

The remote receiver box requires four AA-size 1.5V batteries (excluded) (Fig. 8). When LOW battery icon appears on the screen, please replace batteries.

The remote receiver box equips the microprocessor that receives the signals / commands from the transmitter in order to control system operations / functions. It makes sounds of quick BEEP X 2 (♪, ♪) when it receives an “ON” command, and makes sound of continuous BEEP for one second (♪ ~~~) when it receives an “OFF” command manually (or when Timer ends automatically). But no beep when cycling ON / OFF automatically in THERMO² mode.

The remote receiver box has a 3-position slide switch (OFF/REMOTE/ON) and a LEARN button on the front panel (Fig. 8).



Fig. 8

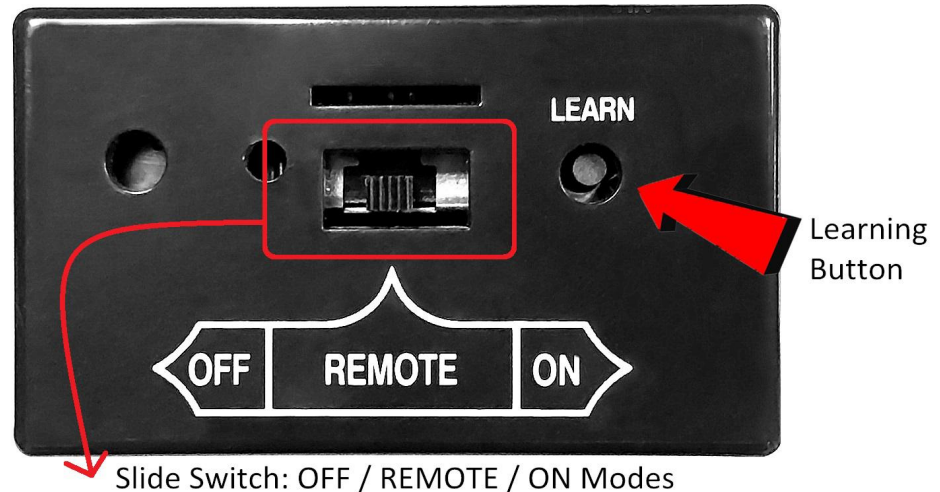


Fig. 9

ON mode: Slide the switch to the ON position (toward the LEARN button), the system will remain ON all the time. Remote transmitter is disabled.

REMOTE mode: Slide the switch to the REMOTE position (middle), the system will ONLY operate with receiving commands from the remote transmitter.

OFF mode: Slide the switch to the OFF position, the system will remain OFF all the time. Remote transmitter and Receiver box are both disabled.

★NOTE: The OFF mode is strongly recommended if house is unattended for a long time. For safety, placing the slide switch in the OFF position also functions as a safety “LOCK-OUT” by both turning the system off and disable the remote receiver.

WARNING & REMINDER

- This system MUST be installed exactly as complied with these instructions. Read all instructions before installation, and follow them during installation carefully.
- Any modifications of Durablow remote control system, or parts, or components are PROHIBITED. They will void the warranty, and may cause a fire hazard result in human casualties and property damages.
- Do NOT connect any gas valve or electronic module directly to 110-120VAC power.
- Read gas appliance manufacturer's instructions and wiring schematics completely for proper placement of all wires. All electronic modules are to be wired to manufacturer's specifications.
- All wiring diagrams in these instructions are for illustration purpose ONLY. Follow instructions from manufacturers of gas valve and electronic module for correct wiring & installation procedures. Improper installation of electric components can cause damage to electronic module, gas valve and remote receiver.



Fig. 11



Fig. 12



Fig. 13

WALL MOUNTING

1. Install four AA-size 1.5V batteries into the remote receiver box(Fig 8). The system operates well with all batteries' total output voltage is greater than 5.2V. Generally, four NEW AA-size batteries should output voltage of 6.0 to 6.2 volts if installed in series.
2. Attach wall mount cover plate to receiver box (Fig. 11). Press the receiver and have it snap into top & bottom tabs of cover plate.
3. Position the cover plate to have words facing up (Fig. 12) Install the remote receiver box into the wall switch box with two provided switch box long screws.

NOTE: The remote receiver box will only receive signal from the transmitter in the REMOTE position (middle). The remote receiver box code must be matched to the transmitter prior to initial use (see LEARNING TRANSMITTER TO RECEIVER).

HEARTH MOUNT

The remote receiver box can be placed on the fireplace, under the fireplace, behind the control panel or louvers....etc. Keep away from high-heat of exceeding 130°F. Additional protection is required for no exposure to the heat. The Slide switch button should be installed on the receiver box for Hearth Mount (Fig. 13).

WIRING INSTRUCTIONS

ONLY qualified electrician / gas technician with the knowledge of gas appliances and gas valves that are permitted to install the remote control system. Incorrect wiring installation will damage the gas valve, electronic module of gas appliance and also the remote receiver.

a. WIRING MILLIVOLT VALVE (Fig. 14)

Connect the two 18 gauge stranded or solid wires of the Remote receiver box to the Millivolt gas valve at the TH & TH/TP terminals on the terminal block. It does not matter which wire go to which terminal.

The remote receiver box's operation is similar to a thermostat that also turn the gas valve ON and OFF based on the input signals from TH & TH/TP terminals. Transmitter sends signals to receiver box, and receiver box pass the signals to Millivolt valve to function the ON and OFF of fire / heater.

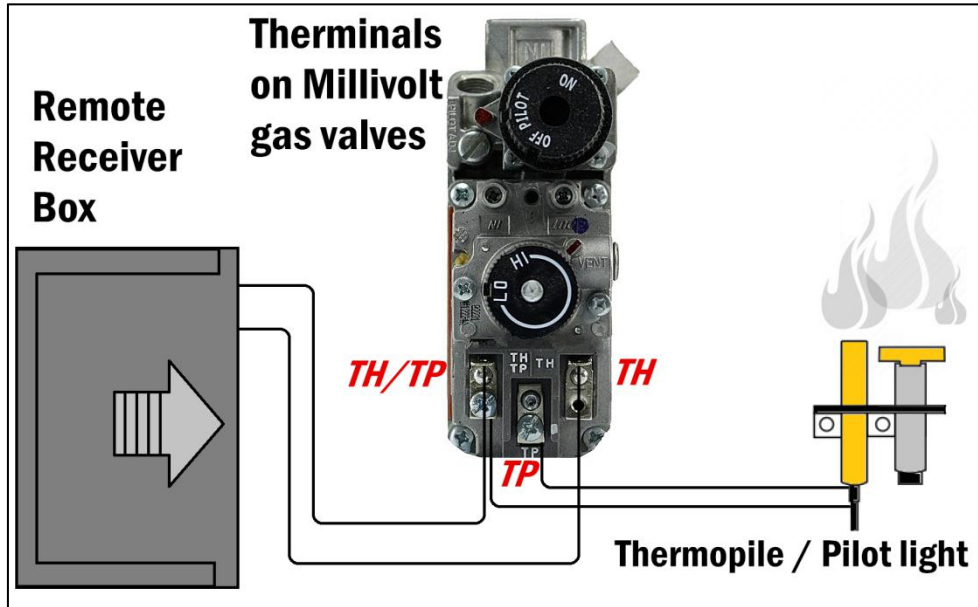


Fig. 14

b. WIRING ELECTRONIC SPARK IGNITION MODULE (Fig. 15)

Connect a 24VAC transformer in series to the TR (transformer) terminal on the ELECTRONIC MODULE. Connect the hot wire from the 24VAC transformer to either of the wire terminals on the remote receiver box. Connect another wire between receiver wire terminal and the TH (thermostat) terminal on the ELECTRONIC MODULE.

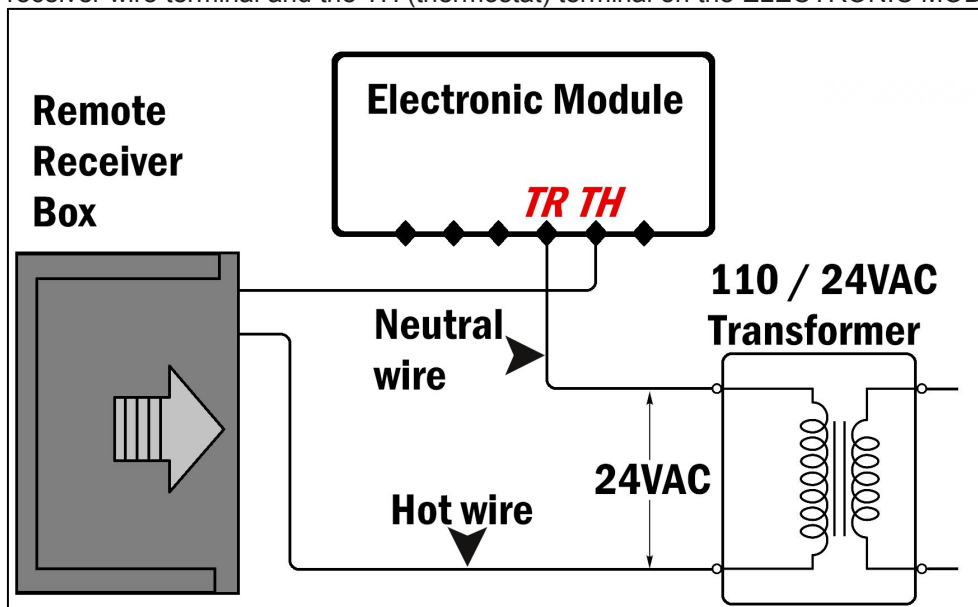


Fig. 15

LEARNING TRANSMITTER TO RECEIVER

Each transmitter has a unique RF code. To have the receiver box to accept the transmitter's signal (code), be sure the slide switch button on the receiver is in the REMOTE mode.

Find the LEARN button on the front face of the receiver (Fig. 16) Use a small screw- driver gently press the black LEARN button inside the hole. Then the receiver box will sounds of quick BEEP X 2 (♪ , ♪). And press the MODE button on transmitter . The receiver box will beep to indicate that the transmitter's code has been captured by the receiver.

If you fail the LEARNING of matching the security code, please wait 2 minutes before another try. The interval allows the microprocessor in the receiver box to reset itself and available for accepting new code. Please try more times.

Any questions, please email us. (info@payandpack.com)

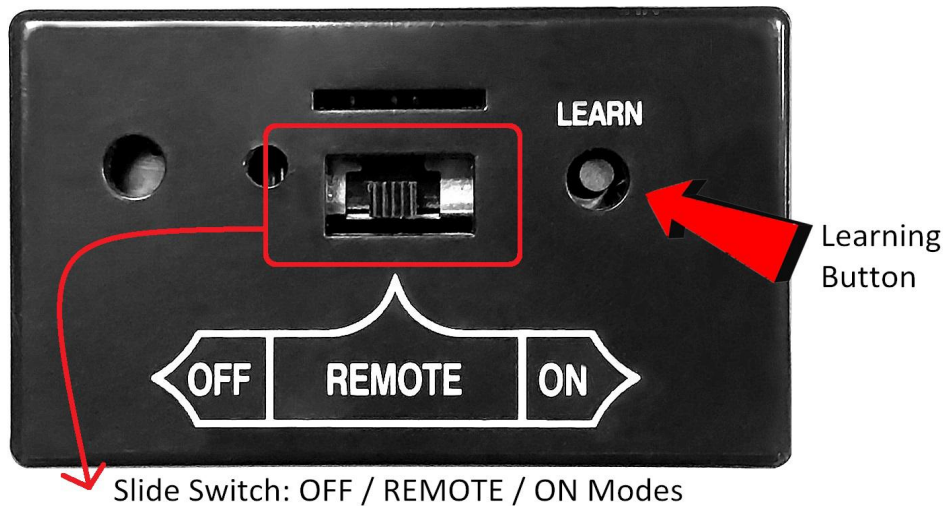


Fig. 16

SYSTEM TESTS & CHECK LIST

MILLIVOLT VALVES

Please DO take following tests and make sure all functions are working fine:

1. Slide the slide switch button on the receiver to the ON (Fig. 16). The main gas fire flame should ON.
2. Slide the button to OFF. The main gas fire flame should extinguish and the pilot flame will remain ON.
3. Slide the button to REMOTE, and press the MODE button on the transmitter to change the system to ON. The main gas fire flame should ON.
4. Press the MODE button on the transmitter to change the system to OFF. The main gas fire flame should extinguish and the pilot flame will remain ON.
5. Press the MODE button on the transmitter to change the system to THERMO² mode. Make the SET temperature on the transmitter to a temperature of a least 2° F (1° C) above the ROOM temperature displayed on the LCD screen, the system flame and main gas fire flame will be ON. Then make the SET temperature to at least 2° F (1° C) below the ROOM temperature, the system flame and main gas fire flame will extinguish in seconds. It should continue to cycle ON and OFF thermostatically. The temperature differential between ROOM and SET temperatures differ at least 2° F (1° C) to start the THERMO² cycling. (The 2° F differential is the factory setting, can NOT be changed.)

ELECTRONIC IGNITION SYSTEMS

Please DO take following tests and make sure all functions are working fine:

1. Slide the slide switch button on the receiver to the ON (Fig. 16). The spark igniting electrode should begin sparking to ignite the pilot. Once the pilot flame is lit, the main gas valve should open and the main gas fire flame should be ON.
2. Slide the button to OFF. The main gas fire flame and pilot fire flame should extinguish together.
3. Slide the button to REMOTE, and then press the MODE button on the transmitter to change the system to ON. The spark igniting electrode should begin sparking to ignite the pilot. Once the pilot flame is lit, the main gas valve should open and the main gas fire flame should be ON.
4. Press the MODE button to OFF. The main gas fire flame and pilot fire flame should extinguish together.
5. Press the MODE button on the transmitter to change the system to THERMO². Make the SET temperature on the transmitter to a temperature of at least 2° F (1° C) above the ROOM temperature displayed on the LCD screen, the system flame and main gas fire flame will be ON. Then make the SET temperature to at least 2° F (1° C) below the ROOM temperature, the system flame and main gas fire flame will extinguish in seconds. It should continue to cycle ON and OFF thermostatically. The temperature differential between ROOM and SET temperatures differ at least 2° F (1° C) to start the THERMO² cycling. (The 2° F differential is the factory setting, can NOT be changed.)

ADDITIONAL INFORMATION

THERMO SAFETY PROTECTION FOR RECEIVER

In order to protect the receiver box, batteries, and receiver's microprocessors, the Durablow remote control system equips a THERMISTOR, a safety feature in receiver box.

The THERMISTOR will automatically shut the system and appliance down, & begin making BEEP X 3 (♪, ♪, ♫), every 4 seconds, when the temperature inside the receiver box is higher than 130°F (54°C). User can re-activate the system by pressing the MODE button on the transmitter when the receiver temperature drops between 120°F (48°C) and 130°F (54°C).

However, the BEEPING will NOT stop if the temperature remains between 120°F and 130°F until the temperature drops below 120°F. The beeping is to alert user that the receiver should be re-located at a cooler position.

To completely reset the beeping and THERMISTOR, please press the MODE button to make a mode cycle (OFF-ON-OFF). Please make sure & allow some time for the receiver box to cool down below 120°F.

TRANSMITTER

1. TRANSMITTER OPERATING DISTANCE

The transmitter uses RF radio frequency to send signal to receiver. It is strongly recommended to use the transmitter within 20-foot distance from receiver box in the same room / space (no wall partition).

2. THERMO DETECTING INTERVAL IN TRANSMITTER

The transmitter normally detects the ROOM temperature every 2 minutes against the SET temperature by sending a signal to the receiver.

3. OUT-OF-RANGE SAFETY ALERT IN RECEIVER

FCC 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. 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 the 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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

RF Exposure Information

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.