

### OPERATING INSTRUCTIONS

### FOR OEM USE ONLY



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6

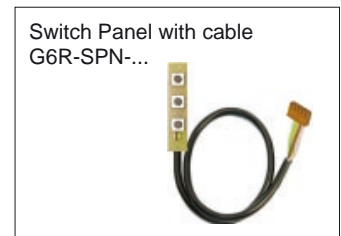


Figure 7

#### ⚠ WARNING

Fire or explosion hazard. Attempted disassembly or repair of controls can cause property damage, severe injury or death.

Read these instructions carefully. Failure to follow them could result in a fire or explosion causing property damage, personal injury, or loss of life. The product must be installed and operated according to all local regulations.

Damper position must be in accordance with Manufacturer's Installation Instructions and all applicable Standards. Failure to follow these Instructions and/or Standards may cause property damage, personal injury, or loss of life.

**BEFORE OPERATING** verify that no gas is in the area around the appliance, including near the floor.

#### WHAT TO DO IF YOU SMELL GAS:

- Do not light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Using a neighbor's phone, immediately call the gas supplier. Follow the gas supplier's instructions.
- If you cannot reach the gas supplier, call the fire department.

Use only your hand to push in or turn the gas control knobs. Never use tools. If a knob will not push in or turn by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.

Do not use this control or any gas appliance if any part has been under water or in contact with water. Immediately call a qualified service technician to replace the control system and any gas control system which has been under water or in contact with water.

#### APPLICATION

GV60 is a battery-powered electronic remote ignition and control system for gas appliances with pilot burners and ODS systems.

#### GENERAL NOTES

##### Radio Frequency Handset

433.92 MHz for Europe;  
315 MHz for U.S. (FCC ID: RTD-G6R) and for Canada (IC: 4943A-G6R).

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

#### NOTICE

Wiring of valve and receiver must be completed before starting ignition. Failure to do so could damage the electronics.

**Batteries - Handset:**

- 1x 9V (quality alkaline recommended)
- Low battery indicator on handsets with display
- Handsets without display: the red LED gets darker
- Battery replacement is recommended after 2 years

**Batteries - Receiver:**

- 4x1.5V "AA" (quality alkaline recommended)
- Low battery indication: frequent beeps for 3 seconds when motor turns.
- An AC Mains Adapter may be used instead of batteries.

**NOTICE**

Only the Mertik Maxitrol AC Mains Adapter or one preapproved by Mertik Maxitrol can be used. Use of other adaptors can render the system inoperable.

- The module for fan speed control and light/dimmer includes mains power together with batteries in the receiver for automatic backup in case of power outage.
- Without using a mains adapter, battery replacement is recommended at the beginning of each heating season.

**NOTICE**

The handsets, receivers, wall switches, switch panels and touch pads are not interchangeable with previous electronics (see figure 8).




Figure 8: Previous Handset

**SETTING THE ELECTRONICS CODE**

(First time use only.)

**Radio Frequency Handset**

A code is selected automatically for all Mertik Maxitrol electronics from among 65,000 random codes available. The receiver has to learn the code of the handset:

- Press and hold the receiver's reset button (see figure 9) until you hear two (2) beeps. The first beep is short and the second beep is long. After the second beep, release the reset button.
- Within the subsequent 20 seconds press the  (small flame) button on the handset until you hear two additional short beeps confirming the code is set. If you hear one long beep, this indicates the code learning sequence has failed or the wiring is incorrect.

**NOTE:** This is a one time setting only, and is not required after changing the batteries of the handset or receiver.

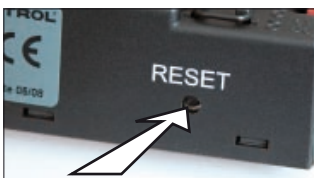



Figure 9: Receiver Reset Button

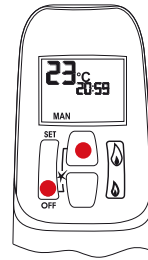
**TO TURN ON APPLIANCE**


**▲ WARNING**

When pilot ignition is confirmed, motor turns automatically to maximum flame height.

- Turn MANUAL knob to the **ON**, full counterclockwise  position.
- Place ON/OFF switch (if equipped) in **I (ON position)**.

**Handset**



- Simultaneously press the **OFF** and  (large flame) buttons until a short beep confirms the start sequence has begun; release buttons.
- Continuing beeps confirm the ignition is in process.
- Once pilot ignition is confirmed, there is main gas flow.
- After main burner ignition the handset will automatically go into temperature control mode (CSA version) or manual mode (CE version).

**Wall Switch/ Touch Pad/ Switch Panel**

- Press button "B" (see figure 10) until a short beep confirms the start sequence has begun; release button.
- Continuing beeps confirm the ignition is in process.
- Once pilot ignition is confirmed, there is main gas flow.

**▲ WARNING**

If the pilot does not stay lit after several tries, turn the main valve knob to **OFF** and follow the instructions "TURN OFF GAS TO APPLIANCE" (page 7).

**STANDBY MODE (Pilot Flame)**

**Handset**

- Press and hold  to set appliance at pilot flame.

**Wall Switch/ Touch Pad/ Switch Panel**

- Press and hold button "C" (see figure 10) to set appliance at pilot flame.

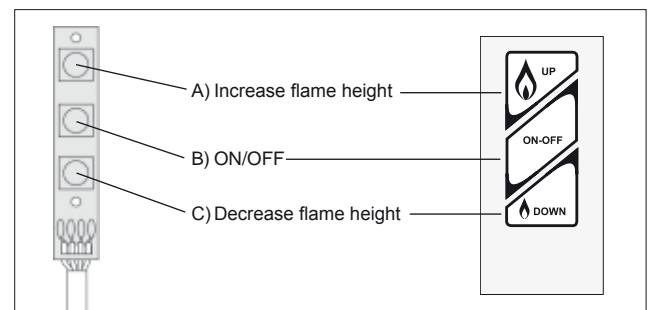
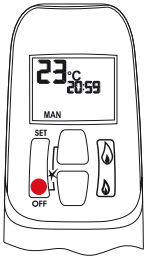


Figure 10: Switch Panel and Wall Switch/Touch Pad

**TO TURN OFF APPLIANCE**



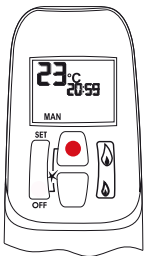
**Handset**

- Press OFF button.

**Wall Switch/ Touch Pad/ Switch Panel**

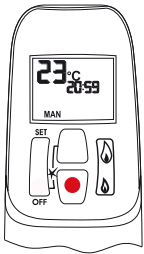
- Press button "B" (see figure 10).

**FLAME HEIGHT ADJUSTMENT**



**Handset**

- In standby mode: Press and hold large flame button to increase flame height.

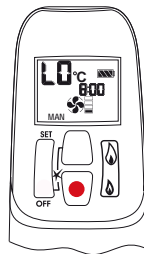


- Press and hold small flame button to decrease flame height or to set appliance at pilot flame.
- For fine adjustment tap the large flame or small flame buttons.

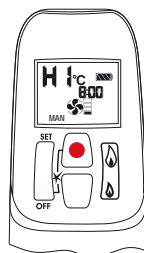
**Wall Switch/ Touch Pad/ Switch Panel**  
(See figure 10)

- Press and hold button "A" to increase flame height.
- Press and hold button "C" to decrease flame height or to set appliance at pilot flame.
- For fine adjustment tap button "A" or "C" (see figure 10)

**Designated Low and High Fire**



- Double-click small flame button. "LO" will be displayed.
- NOTE:** Flame goes to high fire first before going to designated low fire.



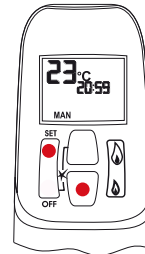
- Double-click large flame button. Flame automatically goes to high fire. "HI" will be displayed.

**WARNING**

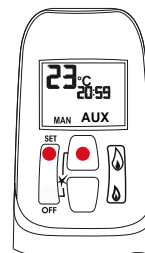
If the appliance will not operate, follow the instructions "TURN OFF GAS TO APPLIANCE" (page 7).

**TO OPEN AND CLOSE SOLENOID VALVE/BURNER**

**NOTE:** The latching solenoid valve cannot operate manually. If the battery runs down it will remain in the last operating position. During normal operation the solenoid valve will be reset to the ON position when the GV60 is switched OFF remotely.



Burner OFF



Burner ON

- Upon ignition Main Burner and Decorative Burner are ON.
- Simultaneously press SET and small flame buttons to switch the Burners OFF. Printed instructions are on the battery cover (see figure 11).
- Simultaneously press SET and large flame buttons to switch Burner ON. (The AUX symbol on the display indicates the solenoid valve is OPEN.)

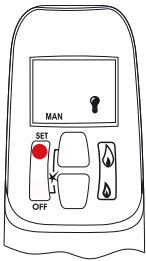
**NOTE:** The operation of the AUX is blocked in timer OFF mode, when the setting of the Nighttime Setback Temperature is "--".



Figure 11: Instructions for Latching Solenoid Valve (on battery cover)

**LIGHT/DIMMER OPERATION**

**💡 - Light/Dimmer**

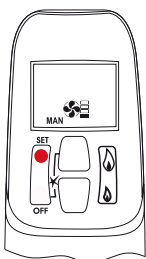


- Briefly press SET button to scroll to 💡 (light bulb) mode. Light bulb icon flashes.
- Press and hold 🔥 (large flame) button to turn ON the light or increase brightness.
- Press and hold 🔥 (small flame) button to decrease brightness.
- In the Light/Dimmer mode, the OFF button shuts OFF the light. If you want the light ON but no flame, press and hold the 🔥 (small flame) button and turn to Pilot flame.

**NOTE:** The light bulb icon is displayed during light/dimmer setting only. 8 seconds after the light/dimmer has been set, the handset will automatically go into temperature control mode (CSA version) or manual mode (CE version).

**CIRCULATING FAN OPERATION**

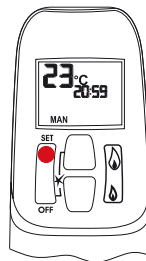
**🌀 - Circulating Fan** - The circulating fan has 4 speed levels from low (1 bar) to high (4 bars).



- Briefly press SET button to scroll to 🌀 (fan) mode. Fan and Level icons flash.
- Press 🔥 (large flame) button to switch ON and increase fan speed.
- Press 🔥 (small flame) button to decrease fan speed. To turn OFF fan, press 🔥 (small flame) button until all 4 speed level bars disappear.

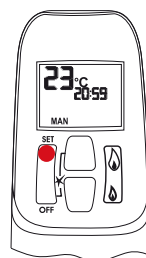
**NOTE:** 8 seconds after the fan has been set, the handset will automatically go into temperature control mode (CSA version) or manual mode (CE version). The fan starts 4 minutes after the gas opens (from OFF or from pilot) at maximum speed and goes to the displayed level after 10 seconds. The fan stops 10 minutes after the gas is OFF or at pilot.

**MODES OF OPERATION**

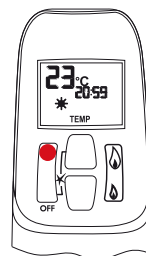


- Briefly pressing the SET button changes the mode of operation in the following order: **MAN** → **TEMP** → **💡** → **🌀** → **TEMP** → **TIMER** → and back to **MAN**.

**NOTE:** Manual mode can also be reached by pressing either the 🔥 (large flame) or the 🔥 (small flame) button.



- **MAN** - **Manual Mode** - Manual Flame Height Adjustment.



- **TEMP** - **Daytime Temperature Mode** (Appliance must be in stand-by mode; pilot ignited): The room temperature is measured and compared to the set temperature. The flame height is then automatically adjusted to achieve the Daytime Set Temperature.

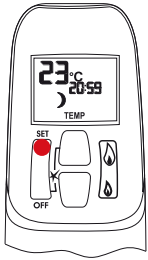


- **💡** - **Light/Dimmer Setting Mode** Turns light/dimmer ON and OFF and adjusts brightness.

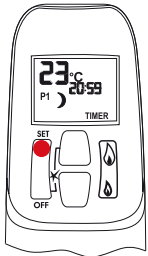


- **🌀** - **Circulating Fan Setting Mode**: Turns circulating fan ON and OFF and adjusts fan speed.

**NOTE:** To turn OFF fan press 🔥 (small flame) until all 4 speed level bars disappear.



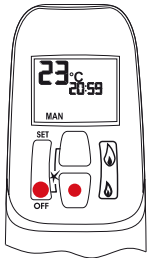
- TEMP** - **Nighttime Setback Temperature Mode** (Appliance must be in standby mode; pilot ignited): The room temperature is measured and compared to the Nighttime Setback temperature. The flame height is then automatically adjusted to achieve the Nighttime Setback Temperature.



- TIMER** - **Timer Mode** (Appliance must be in standby mode; pilot ignited): The Timers P1 and P2 (Program 1, Program 2) each can be programmed to go ON and OFF at specific times. For instructions see Timer Programming Mode.

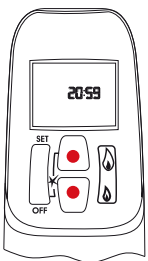
**NOTE:** The display shows the set temperature every 30 seconds.

### SETTING °C/24 HOUR OR °F/12 HOUR CLOCK



- Press **OFF** and (small flame) button until display changes from Fahrenheit/12 hour clock to Celsius/24 hour clock and vice versa.

### SETTING THE TIME

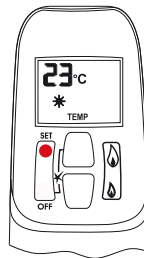


- The Time display will flash after either:
  - Installing the battery or
  - Simultaneously pressing the (large flame) and (small flame) buttons.
- Press (large flame) button to set the hour.
- Press (small flame) button to set the minute.
- Press **OFF** or simply wait to return to manual mode.

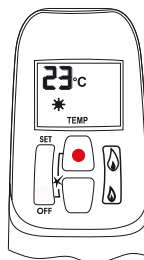
### SETTING THE ON / OFF TEMPERATURES

#### SETTING THE "DAYTIME" TEMPERATURE

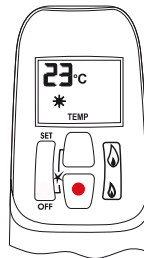
**DEFAULT SETTINGS:** (sun), 23°C/ 74°F



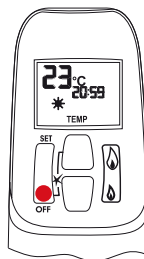
- Briefly press **SET** button to scroll to **TEMP** (sun) mode. Hold the **SET** button until the **TEMP** flashes.



- Press (large flame) button to increase Daytime Set Temperature.



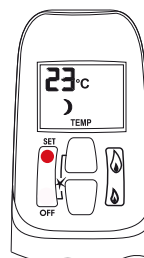
- Press (small flame) button to decrease Daytime Set Temperature.



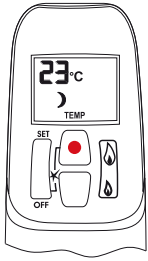
- Press **OFF** or simply wait to complete programming.



#### SETTING THE "NIGHTTIME SETBACK" TEMPERATURE

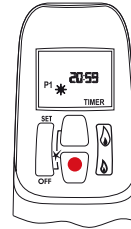
**DEFAULT SETTINGS:** (moon), "--" (OFF)




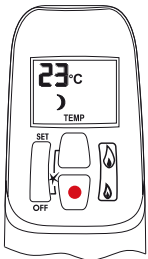
- Briefly press **SET** button to scroll to **TEMP** (moon) mode. Hold the **SET** button until the **TEMP** flashes.





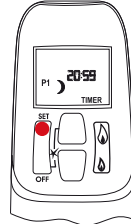
- Press  (large flame) button to increase  Nighttime Setback Temperature.




- Set the minutes by pressing the  (small flame) button.

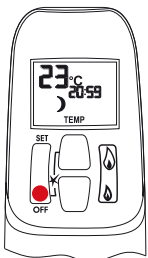


- Press  (small flame) button to decrease  Nighttime Setback Temperature.

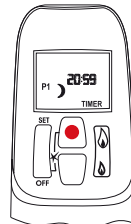



### SETTING P1 OFF TIME

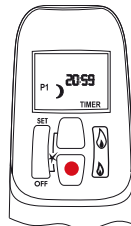
- Briefly press **SET** button to scroll to setting P1 OFF time. P1  (moon) is displayed and the time flashes.




- Press **OFF** or simply wait to complete programming.



- Set the hour by pressing the  (large flame) button.





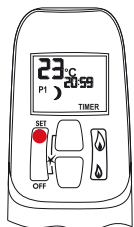
- Set the minutes by pressing the  (small flame) button.

## SETTING PROGRAM TIMERS

### DEFAULT SETTINGS:


Program 1 (P1): P1 : 6.00am P1 : 8.00am

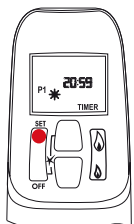
Program 2 (P2): P2 : 4.00pm P2 : 10.00pm




- Select Timer Mode by briefly pressing the **SET** button.

### SETTING P2 ON TIME


- Briefly press **SET** button to scroll to setting P2 ON time. P2  (sun) is displayed and the time flashes.
- See instructions SETTING P1 ON TIME.

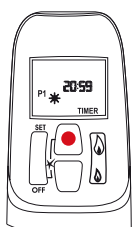



### SETTING P1 ON TIME

- Hold the **SET** button until P1  (sun) is displayed and the time flashes.

### SETTING P2 OFF TIME

- Briefly press **SET** button to scroll to setting P2 OFF time. P2  (moon) is displayed and the time flashes.
- See instructions SETTING P1 OFF TIME.



- Set the hour by pressing the  (large flame) button.

This concludes programming Timers P1 and P2. Press **OFF**. The handset will automatically save your changes.

## MANUAL OPERATION

(Only possible, when MANUAL knob is used)

Access to the pilot burner is only required for ignition with a match.

When turning main valve knob, do not force. Knob has a slip clutch that clicks until the end stops are reached. This allows for manual flame height adjustment as well as adjustment to pilot standby position.

1. **STOP!** Read the safety information included before proceeding.
2. Turn main valve knob to the **OFF**, full clockwise ↻ position.
3. Turn MANUAL knob to the **MAN**, full clockwise ↻ position.
4. Place ON/OFF switch (if equipped) in **O** (OFF position).
5. Wait five (5) minutes to clear out any gas. Verify that no gas is in the area around the appliance, including near the floor. **If you detect gas STOP!** Follow "WHAT TO DO IF YOU SMELL GAS" in the safety information on page 1. If no gas is present, proceed to step 6.
6. Place ON/OFF switch (if equipped) in **I** (ON position).
7. With the MANUAL knob in **MAN** position a manual pilot valve operator and piezo ignitor (optional) are accessible.
8. Fully push down manual pilot valve operator and hold in, to start pilot gas flow (see figure 12).

### Ignition with match:

Immediately light the pilot with a match, while continuing to hold in the manual pilot valve operator for about one (1) minute after the pilot is lit. Release manual pilot valve operator. If pilot does not stay lit, wait five (5) minutes and repeat.

### Ignition with piezo ignitor:

Change the ignition cable from the receiver to the valve (see figure 12). Push in the piezo ignitor to ignite. If pilot does not stay lit, wait five (5) minutes and repeat.

### ⚠ WARNING

If the pilot does not stay lit after several tries, turn the gas control knob (main valve knob) to **OFF** and proceed to step 12.

9. If applicable, replace pilot access panel before proceeding.
10. Turn MANUAL knob to the **ON**, full counterclockwise ↺ position.
11. Turn main valve knob to the full **ON**, full counterclockwise ↺ position.
12. If the appliance will not operate, follow the instructions "TURN OFF GAS TO APPLIANCE".

## TURN OFF GAS TO APPLIANCE

1. Place ON/OFF switch (if equipped) in **O** (OFF position).
2. If gas control is accessible turn main valve knob to the **OFF** full clockwise ↻ position.
3. Replace appliance access cover (if applicable).

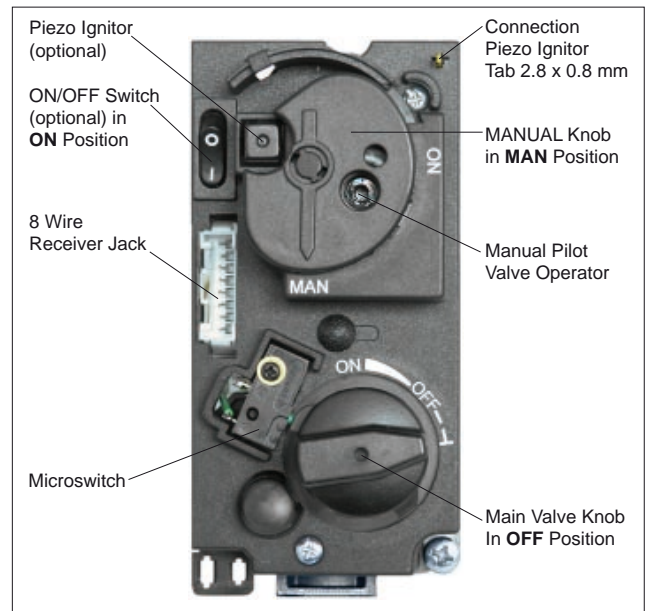


Figure 12: Combination Control, Cover

### **AUTOMATIC TURN DOWN**

#### **6 HOUR NO COMMUNICATION FUNCTION (CE & CSA VERSIONS)**

- Manual Mode / Temperature / Timer Mode:  
The valve will turn to pilot flame if the batteries in the handset are low or if the handset is out of communication range for a 6 hour period.

#### **6 HOUR NO COMMUNICATION FUNCTION (CSA VERSION)**

- Manual Mode / Temperature / Timer Mode:  
The valve will turn to pilot flame if there is no change in flame height for a 6 hour period. In Temperature / Timer Mode if the ambient room temperature changes, the flame height will adjust automatically to maintain set temperature, and the fire will continue to function normally. The valve will turn to pilot flame if the set temperature and the ambient room temperature remain the same over a 6 hour period.

#### **RECEIVER OVERHEATING (FOR MODULE VERSIONS ONLY)**

- Valve turns to pilot flame if the temperature in the receiver is higher than 140°F (60°C). The main burner will come back on only when the temperature is below 140°F (60°C).

#### **1 HOUR TURN DOWN FOR SPECIAL RECEIVER (BEDROOM FIREPLACES ONLY)**

- The valve will turn to pilot flame if there is no change in flame height over a 1 hour period.

### **AUTOMATIC SHUT OFF**


#### **LOW BATTERY RECEIVER**

- With low battery power in the receiver the system shuts off the fire completely. This will not happen if the power supply is interrupted.

#### **FIVE DAY SHUT OFF (CSA VERSION)**

- The system shuts off the fire completely if there is no change in flame height for 5 days.

#### **SECOND THERMOCOUPLE SHUT OFF**

- Second Thermocouple Option: The system shuts off the fire if the main burner does not completely ignite approximately 20 seconds after ignition or after pushing the  (large flame) button.

**NOTE:** Before the next ignition there is a 2 minute waiting period.