

### THERMOSTATIC / TIMER MODEL OPERATING INSTRUCTIONS - FOR OEM USE ONLY

#### ⚠ WARNING

Fire or explosion hazard. Attempted disassembly or repair of controls can cause property damage, severe injury or death. Do not disassemble the gas valve; it contains no serviceable components.

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.

**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.
- Immediately call the gas supplier from a neighbor's phone. 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, don't 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

GV34 is a servo motor operated valve with remote control allowing for infinite adjustment from low fire to high fire. When used with a thermostatic remote handset, the GV34 fully modulates from low fire to high fire.

#### GENERAL NOTES

**Radio Frequency Remote**  
 868 MHz for Europe; 915 MHz for U.S. (FCC ID:UX5-R300) and for Canada (IC: 4943B-R300).  
 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.

**Batteries - Remote Handset:**  
 2 x 1.5 V "AAA" (quality alkaline recommended)

**Batteries - Receiver:**  
 4 x 1.5V "AA" (quality alkaline recommended)  
 An AC Mains Adapter may be used instead of batteries (only the Mertik Maxitrol or an AC Mains Adapter approved by Mertik Maxitrol can be used).

**Battery Replacement**  
 Battery replacement is recommended at the beginning of each heating season. Do not use metal tools to remove batteries. Using a metal tool could cause a short that may damage the receiver.

**Location of Receiver**  
 When the RF-receiver is placed in the appliance, the surrounding metal can reduce reception considerably.  
**NOTE:** During a power outage the AC Mains Adapter must be unplugged from the receiver to operate in the battery mode.

#### THERMOSTATIC/TIMER HANDSET FEATURES



Figure 1: R300 Thermostatic / Timer Models, Patented



Figure 2: R300 Thermostatic / Timer Models Icons

LCD Icon	Feature and Description
	Timer OFF Temperature Icon and Sleep Mode. After 8 hours of no signal between the handset and the receiver, valve runs to pilot and Sleep Mode icon is displayed.
	Timer1 and Timer2: Uses Timer ON and Timer OFF Temperatures at specific times set by user.
	Temperature Range Indicator: Indicates handset is in Thermostatic Mode (if Rooster icons are also present, indicates handset is in Timer Mode).
	Ambient Temperature Display: Indicates the current room temperature. °F or °C
	Child Safety Lock: When ON (icon showing), the right button must be pushed twice within 0.5 seconds to increase flame height.
	Battery Life Indicator: 4 bars indicates a fully charged battery.
	Clock Mode: Set to 12 or 24 hour clock.
	Communication Indicator: Indicates the handset is transmitting to the receiver.

#### TEMPERATURE RANGE INDICATOR

Indicates set point temperature is within this range:

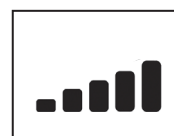


Figure 3: Indicator Bars

- 1 bar: 40°F to 50°F (4°C to 11°C)
- 2 bars: 51°F to 60°F (11°C to 16°C)
- 3 bars: 61°F to 70°F (16°C to 22°C)
- 4 bars: 71°F to 80°F (22°C to 27°C)
- 5 bars: 81°F to 99°F (27°C to 37°C)

**INITIAL SETUP**

**SETTING THE ELECTRONICS CODE**

**Radio Frequency Remote**

A code is selected automatically for all Mertik Maxitrol electronics from among 65,000 random codes available.

On initial and subsequent receiver battery changes, the receiver has to learn the code of the handset:


- Power up Handset.
- Power up Receiver (LED blinks).
- While blinking, press any button.
- When the Receiver LED stops blinking, the code is set.

**NOTE:** These remote handset and receiver are not interchangeable with previous versions. For all lighting instructions please refer to appliance manufacturer's instructions..


**CHANGING THE MODE OF OPERATION**

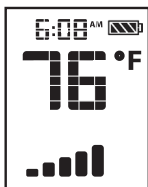
Press and release both buttons  to change the mode of operation (in operating mode) in the following order:


- Manual Mode
- Thermostatic Mode
- Timer Mode

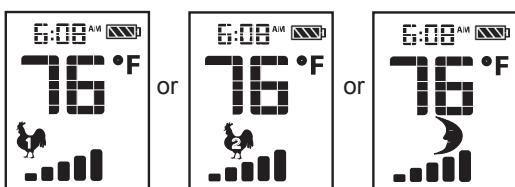
1. Press and release both buttons 
  - Manual Operating Mode. Ambient temperature is shown along with battery life indicator, and the current time.



2. Press and release both buttons 
  - Thermostatic Operating Mode. Ambient temperature is shown along with battery life indicator, temperature range indicator, and the current time.



3. Press and release both buttons 
  - Timer Mode. Ambient temperature is shown along with battery life indicator, temperature range indicator, the current time, and either Timer ON (roosters) or Timer OFF (moon) visible.



**▲ WARNING**

**READ THROUGH THIS ENTIRE WARNING BEFORE ATTEMPTING INITIAL SETUP / PROGRAMMING.**

A red number/icon indicates the icon is blinking. This will help determine which menu item is being set or programmed.




When programming a menu item, use the right (up) button ONLY. Pressing the left (down) button will cause the programming menu to skip to the next menu item. If you accidentally skip to the next menu item, you must cycle through all the menu items to return to the item you were programming.

Adjusting a menu item, the number will scroll up only (1, 2, 3...) and will cycle back to the beginning number.

15 seconds of inactivity will cause the remote to automatically go to operation mode. Follow Step 1. INITIAL SETUP - PROGRAMMING MODE (pg. 3) to return to programming mode. Any changes will be saved each time you exit programming mode.



If both rooster icons are flashing, the timers are incorrectly set. The OFF time is overlapping the ON time. The timers must be reset.

**INITIAL SETUP - PROGRAMMING MODE**

- Press  (both buttons) and hold for 5 seconds (until screen blinks) to enter Programming Mode.
- Press  (down) to scroll through menu items.
- Press  (up) to adjust menu items.



**SETTING °F OR °C**



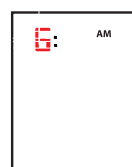
1. Press  (up) button to choose either °F or °C.
- Press  (down) button to set and scroll to the next menu item.



**SETTING 12 HOUR OR 24 HOUR MODE**



2. Press  (up) button to choose either "12" or "24".
- Press  (down) button to set and scroll to the next menu item.

**SETTING THE HOUR**



3. Press  (up) button to set the Hour, 1-12 or 0-23.
- NOTE:** Use right (up) button only. Numbers scroll up (1, 2, 3, ..) to 12 or 23 then cycle back to 1 or 0.
- Press  (down) button to set and scroll to the next menu item.

**INITIAL SETUP - PROGRAMMING MODE CONT.**

**SETTING THE MINUTES**



4. Press (up) button to set Minutes, 00-59.

NOTE: Use right (up) button only. Numbers scroll up (1, 2, 3...) to 59 then cycle back to 00.

• Press (down) button to set and scroll to the next menu item.

**SETTING CHILD SAFETY LOCK**



5. Set Child Safety Lock either ON or OFF.

• Press (up) button to set Child Safety Lock ON (icon showing) or OFF.

9. This concludes your basic programming. The remote will automatically save your changes and go into operation mode after 15 seconds of inactivity.

Or you can go into Timer Mode Programming.

Press (down) button to set and scroll to the next menu item. This will enter you into Timer Mode Programming.

**FLAME HEIGHT ADJUSTMENT**

**MANUAL MODE:**

**(Manually Adjusting Flame Height)**

- To turn the main burner ON or to increase the flame height, press the (up) button.
- To decrease the flame height, press the (down) button or turn main burner OFF.

**THERMOSTATIC MODE:**

Flame height adjusts automatically to set temperature.

- Press the (up) button to increase or the (down) button to decrease setpoint by 1°F/C. \*

\* When entering Thermostatic mode, the current ambient temperature is the initial setpoint temperature.

**TIMER MODE:**

Each can be programmed for a single Timer ON temperature and a single Timer OFF temperature. Timers 1 and 2 each can be programmed to go ON and OFF at specific times. For instructions, see Timer Mode Operation on page 3.

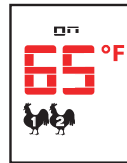
- Press the (up) button to increase or (down) button to decrease setpoint by 1°F/C. \*

\* Manually adjusting the temperature in Timer Mode changes the setpoint temperature of Timer 1 or Timer 2.

**TIMER PROGRAMMING MODE**

NOTE: Use (up) button only to adjust menu items. Number scroll up to the highest setting and then cycle back to the beginning number. Temperature setting cycle back to OFF or pilot (“--”).

**SETTING “ON” TEMPERATURE**



1. Press (up) button to set ON temperature for BOTH Timer 1 and 2 (Sun icon visible).

• Press (down) button to set and scroll to the next menu item.

**SETTING “OFF” TEMPERATURE**



2. Press (up) button to set OFF temperature for BOTH Timer 1 and 2 (Moon icon visible).

NOTE: OFF temperature can not be set higher than your ON temperature.

• Press (down) button to set and scroll to the next menu item.

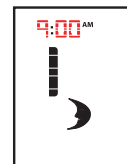
**SETTING TIMER 1 “ON” TIME**



3. Set Timer 1 ON time.

- Press (up) button to set ON time (scrolls in 15 minute increments).
- Press (down) button to set and scroll to the next menu item.

**SETTING TIMER 1 “OFF” TIME**



4. Set Timer 1 OFF time.

- Press (up) button to set OFF time (scrolls in 15 minute increments).
- Press (down) button to set and scroll to the next menu item.

**SETTING TIMER 2 “ON” TIME**



5. Set Timer 2 ON time.

- Press (up) button to set ON time (scrolls in 15 minute increments).
- Press (down) button to set and scroll to the next menu item.

**SETTING TIMER 2 “OFF” TIME**




6. Press (up) button to set OFF time (in 15 minute increments).



• Press (down) button to set and scroll to the next menu item.

7. This concludes programming Timers 1 and 2. The remote will automatically save your changes and go into operation mode after 15 seconds on inactivity.

### SLEEP MODE







After 8 hours of no signal between the handset and receiver, valve runs to pilot and  Sleep Mode Icon is displayed.

### TURN OFF GAS TO APPLIANCE

- Access the gas control.
- Turn the main valve knob clockwise  to the PILOT position. Push in knob; turn and release. Continue turning to the OFF full clockwise  position.
- Replace appliance accessibility cover (if applicable),

### MANUAL VALVE OPERATION

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

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 full clockwise  position.
  4. 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 Warnings (see pg. 1) under "What to do if you smell gas".** If no gas is present, proceed to step 5.
  5. Turn main valve knob slightly counterclockwise  towards the IGN position until it stops, then press down and continue turning counterclockwise  to the pilot position. Continue to hold down knob for 10 seconds after pilot burner has been lit. If pilot does not light, steps 1 and 2 may be repeated.
- NOTE:** If the pilot does not stay lit after several tries, turn main valve knob to the PILOT position. Push in knob; turn and release. Continue turning to the OFF full clockwise  position and proceed to step 7.
6. Upon lighting, release knob and turn main valve knob fully counterclockwise  to ON position.
  7. If the appliance will not operate, follow the instructions "Turn Off Gas to Appliance".

### MANUAL FLAME HEIGHT OPERATION

The motorized valve is equipped with a slip clutch allowing manual adjustment of the main burner by turning the manual knob. When turning the manual knob, do not apply excessive force.

### STANDBY PROCEDURE

Turn main valve knob clockwise  to Pilot position, allowing only pilot gas to flow.

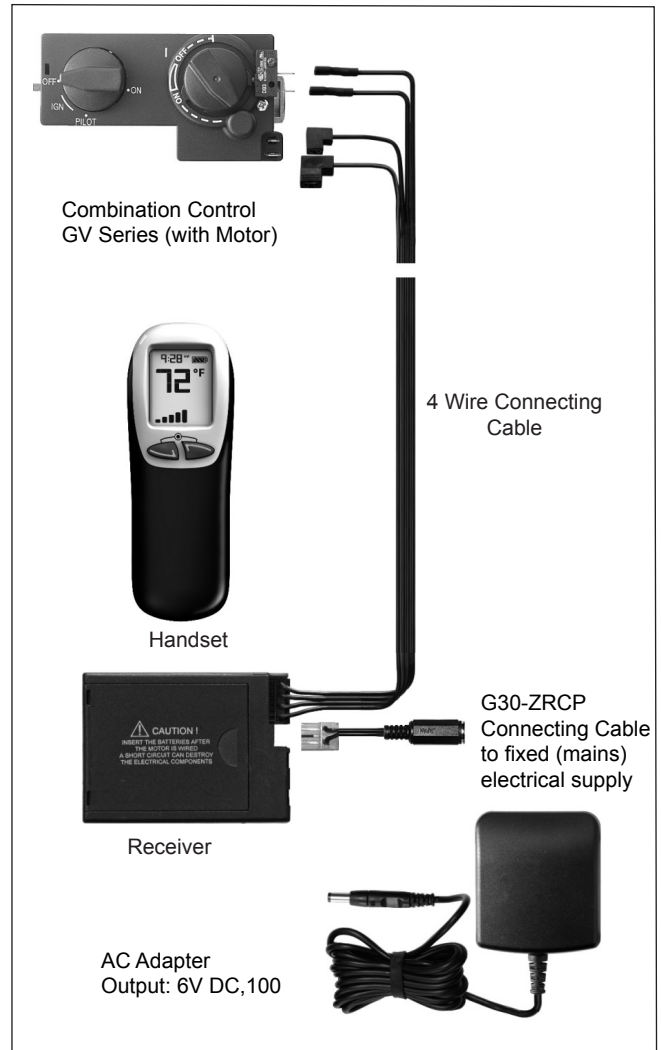


Figure 3: Wiring Diagram for OEM use only.

### ⚠ WARNING

To keep receiver free from debris and dirt, do not remove the receiver from the plastic bag until all construction is complete.

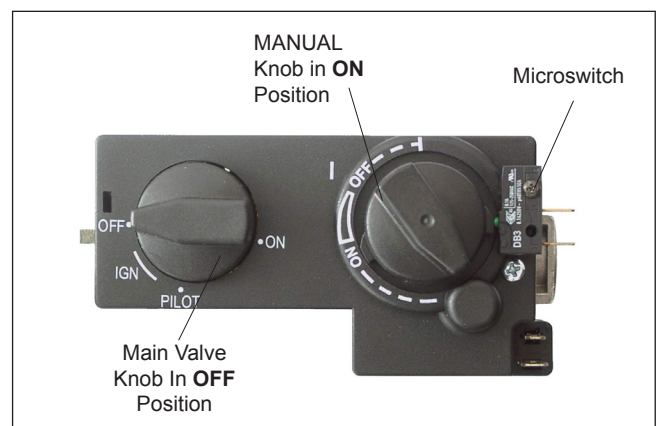


Figure 4: Combination Control