

REMOTE CONTROL SETS FOR GV30 SERIES VALVES

ADJUST FLAME HEIGHT FOR FIREPLACES, GAS SPACE HEATERS AND PATIO HEATERS

INSTALLATION AND OPERATING INSTRUCTIONS

FOR OEM USE ONLY

⚠ WARNING

Read these instructions carefully and completely before installing or operating. Failure to follow them could result in a fire or explosion causing property damage, personal injury, or loss of life. Service and installation must be performed by a trained/experienced service technician.

The Mertik Maxitrol product should not be operated until it has been inspected and approved by the local code authority.

WHAT TO DO IF YOU SMELL GAS

- Do NOT operate any appliance.
- Do NOT touch any electrical switch; do NOT use any phone in your building.
- Immediately evacuate the area and contact the gas supplier. Follow the gas supplier's instructions.
- If you cannot reach the gas supplier, call the fire department.

All products used with combustible gas must be installed and used strictly in accordance with the instructions of the Original Equipment Manufacturer (OEM) and with all applicable government codes and regulations, e.g. plumbing, mechanical, and electrical codes and practices. These instructions do NOT supersede OEM's installation or operating instructions.

Do NOT use a product if you suspect it has been subjected to high temperatures, damaged, tampered with, or taken apart. Do NOT use a product if you suspect it has been under water or that liquid has seeped into the product. Any of these incidents can cause leakage or other damage that may affect proper operation and cause potentially dangerous combustion problems.

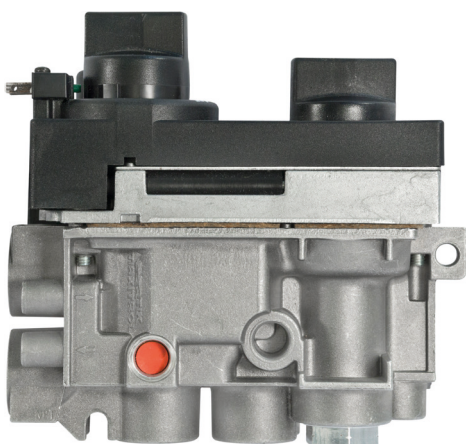


Figure 1: GV30 Series Valve (GV34)

APPLICATION

All G30 Remote Control Sets from Mertik Maxitrol are specifically designed for use in gas fires. They are all battery powered and require no external power.

AVAILABLE SETS

1. STANDARD AND TEMPERATURE DISPLAY

Handsets are designed for use in gas fires equipped with specially designed GV34, GV35 & GV38 (or GV30 and GV36 retrofitted with a motor) combination controls. The handsets do not include a 2 button safety feature and therefore are **not to be used with open gas fires!**

G30-ZRPSB – STANDARD HANDSET PACKAGE

- Handset G30-ZRHS
- Receiver G30-ZRRSB
- Cable G30-HCCDN
- Not programmable

G30-ZRPDB – TEMPERATURE DISPLAY HANDSET PACKAGE

- Handset G30-ZRHD
- Receiver G30-ZRRSB
- Cable G30-HCCDN
- Not programmable

2. THERMOSTAT AND TIMER

Handsets are designed for use only in gas fires equipped with specially designed combination controls (GV34 or GV36 retrofitted with a motor).

G30-ZRPTTB PACKAGE

- Handset G30-ZRHTT
- Receiver G30-ZRRTTB
- Cable G30-HCCDN
- Programmable

3. STANDARD FOR OPEN FIRES

These handsets are designed for use in gas fires equipped with specially designed GV34, GV35 (or GV36 retrofitted with a motor) combination controls.

G30-ZRPSOB PACKAGE

- Handset G30-ZRHSO
- Receiver G30-ZRRSB
- Cable G30-HCCDN
- Not programmable

INSTALLATION INSTRUCTIONS

FOR OEM USE ONLY

COMPONENTS



OPTIONS

The Remote Control Sets from Mertik Maxitrol offer various ranges of options to choose from.

- Room temperature display in °F / °C changeable
- Handset with two button operation prevents accidental lighting (per GAD90/396/CE)
- Programmable room temperature
- Automatic temperature control regulates to room temperature setting
- Timer function

TECHNICAL SPECIFICATIONS

ULTRASOUND TRANSMISSION

Frequency: ON 40.5 kHz, OFF 40.0 kHz
Working Range: 0.5m to 10.0m (1.6ft. to 33 ft.)

⚠ WARNING

Caution, if the appliance is left unattended in the on position extraneous sound waves can activate the ultrasonic receiver and change the flame height adjustment.

AMBIENT TEMPERATURE RANGE

CE: Combination control: 0 °C to 110 °C
(80 °C with motor)
Receiver RF without batteries: 80 °C
Receiver RF with batteries: 55 °C
Handset: 55 °C
Ignition cable: 150 °C
Misc. cables: 105 °C

⚠ WARNING

1. Turn off gas supply at the appliance service valve before starting installation, and perform a Gas Leak Test after the installation is complete.
2. Install the sediment trap (where required) in the gas supply line to prevent contamination of the gas valve.
3. 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 will void warranty and can result in a fire or explosion.

NOTICE

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

BATTERIES – HANDSET

- 1 x 9V (alkaline recommended).
- Low battery power indicator on handsets with display.

BATTERIES – RECEIVER

- 4 x 1.5V "AA" (alkaline recommended).

⚠ WARNING

- Without using a mains adapter, battery replacement is recommended at the beginning of each heating season.
- Old or dead batteries should be removed immediately. If left in the unit the batteries can overheat, leak, and/or explode.
- Do NOT expose batteries (including during storage) to direct sunlight, excessive heat, fire, moisture, or severe impact. Each of these conditions can cause the batteries to overheat, leak, and/or explode.
- Batteries must be kept within their recommended temperature limits. (Ambient battery temperature range: 32 °F to 131 °F [0 °C to 55 °C].)
- New and old batteries and different brands of batteries should not be used together. Mixing of various batteries can cause the batteries to overheat, leak, and/or explode.

INSTALLATION INSTRUCTIONS**FOR OEM USE ONLY****NOTICE**

It is recommended to turn the combination control either to the off or pilot position if the appliance is left unattended for longer periods (e.g. vacation), so that it cannot receive commands from the remote transmitter. Exercise caution when leaving the appliance unattended, in exceptional cases sound waves from sources other than the transmitter can cause changes in flame height adjustment.

CONNECTIONS

All remote transmitters and receivers are intended for use only with motorized gas combination controls models of the GV30 Series. The receiver cable must be firmly plugged onto the flat blade connectors of the motor: 6.3 mm and 4.8 mm; Endstop Switch: both 2.8 mm (see figure 3).

CONNECTING RECEIVER**Receiver G30-ZRRSB**

This receiver is for use in combination with the following hand-sets: G30-ZRHD, G30-ZRHSO and G30-ZRHS

In combination with this receiver a Endstop Switch is not necessary.

Receiver G30-ZRRTTB

This receiver is for use in combination with the following hand-set: G30-ZRHHT

In combination with this receiver an Endstop Switch is necessary.

The mounting points on the bottom of housing sheet metal screws 2,9 DIN 7981 (max. screws length 5.0 mm)

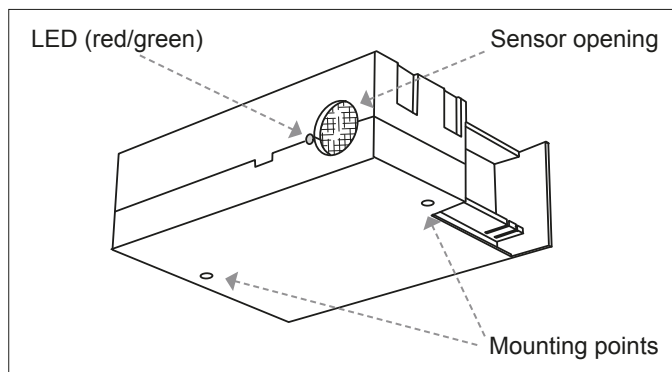


Figure 2: Receiver (red LED for Standard and Temperature Display versions, green LED for Thermostat and Timer version)

NOTICE

When installing receiver, assure that the sensor opening can receive sound waves.

After the receiver has been connected to the motor and charged batteries have been correctly installed, the transmitter may be used to adjust the flame height or to turn the main gas on and off.

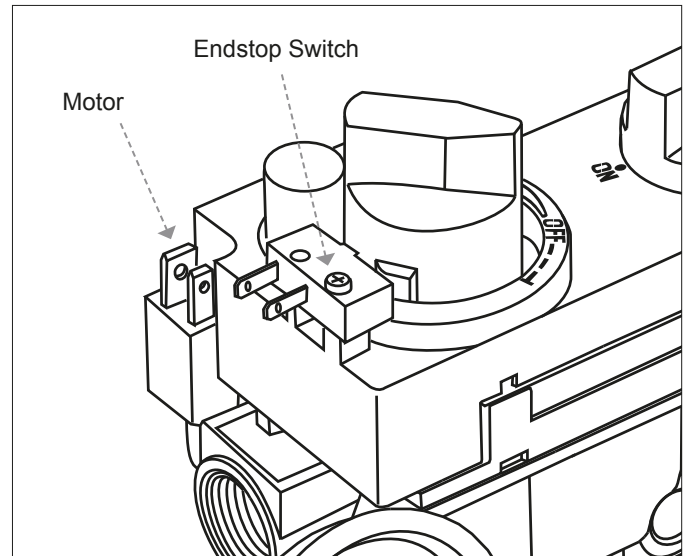
MOTOR CABLE CONNECTIONS

Figure 3: Cover with connections for motor and Endstop Switch

NOTICE

For the standard version there is no Endstop Switch necessary. The two loose motor cables designated for the Endstop Switch can be cut off.

G30-ZWHG WALL BRACKET FOR HANDSET (OPTIONAL)

For more information on wall bracket for GV30 handsets please use the following literature:

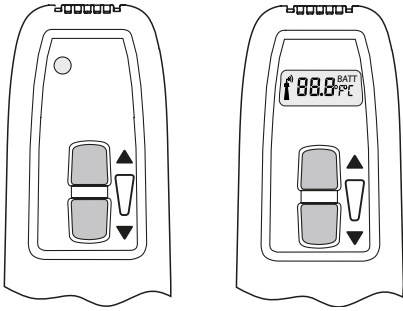
GVAC-LT-DE.EN-11.2002-WANDHA

To download the latest literature versions please also visit:
<http://www.mertikmaxitrol.com/>

OPERATING INSTRUCTIONS

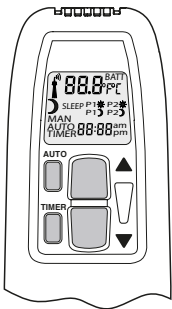
FOR OEM USE ONLY

HANDSET – G30-ZRHS AND G30-ZRHD



- The temperature display on model G30-ZRHD can be switched between °C and °F by simultaneously pushing the buttons marked (▲) and (▼).
- Press (▲) to turn on the main burner and to increase the flame height. Press (▼) to decrease the flame height and to shut off the main burner.
- Short tapping of either button allows incremental change in flame height.

HANDSET – G30-ZRHTT



TRANSMITTER FUNCTION

Set the Display (from °C/24 h to °F/12 h and vice versa)

- After connecting the battery or by simultaneously pressing AUTO and TIMER, the display flashes. You are in set mode.
- From set mode, press AUTO to switch from °F (and 12 hour clock) to °C (and 24 hour clock) or vice versa.
- The display will automatically return to manual mode after some time, but you may immediately return to manual by depressing the TIMER button.

SET THE CURRENT TIME

- After connecting the battery or by simultaneously pressing AUTO and TIMER, the display flashes. You are in set mode.
- From set mode, press (▲) to set the hour and (▼) to set the minute.
- Wait or press TIMER to return to “manual” mode.

PROGRAMMING THE DESIRED SET TEMPERATURE

- Press AUTO until the display flashes.
- Press (▲) or (▼) to set the desired temperature.
- Wait or press AUTO to switch to automatic mode.
- A sensor in the transmitter measures the room temperature. The controller compares the room temperature with the set temperature and sends a signal to the receiver to turn the gas valve motor, which adjusts the flame height accordingly.

PROGRAMMING THE TIMER

- Press TIMER until P1 ✱ flashes (period 1, heating cycle on).
- Set the time for the beginning of the first heating period by pressing (▲) for hour and (▼) for minute.
- Press TIMER again; P1 ☾ appears.
- Set the time for the end of the first heating period.
- Press TIMER again to set the second heating period P2 ✱ (heat on) and P2 ☾ (heat off).
- Store both heating periods by pressing TIMER again.
- If only one heating period is desired, program the same time for P2 ✱ and P2 ☾ as for P1 ✱ and P1 ☾.

MANUAL MODE (MAN IN DISPLAY) FOR MANUAL FLAME HEIGHT ADJUSTMENT

- Press (▲) to turn on the fire (main burner) or to increase flame height
- Press (▼) to decrease flame or to turn down to pilot.
- To incrementally increase or decrease the flame height lightly tap either the (▲) or (▼) button.
- The “send” symbol appears in the upper left corner of the display when either large button is depressed.
- The LED of the receiver flashes when the temperature knob of the valve reaches its end stops.

AUTOMATIC MODE (AUTO IN DISPLAY) FOR TEMPERATURE CONTROL

- Briefly press AUTO. The set temperature will appear briefly before the display reverts to the room temperature.

TIMER MODE (TIMER IN DISPLAY)

- During heating periods P1 ✱ and P2 ✱, the temperature is controlled in the same manner as in automatic mode.
- When the timer program turns to (heating cycle off), the motor will turn the valve to pilot and there is no temperature control. This minimizes battery consumption.
- You may press AUTO to verify the set-temperature and then press TIMER to return to timer mode.
- You may press either the (▲) or (▼) button from any mode for manual override.
- To prolong battery life, we recommend switching the transmitter to manual mode and turning the fire to pilot with the (▼) button before turning the appliance off. If the transmitter is left in automatic or timer mode, the batteries will continue to be used when the appliance is off.

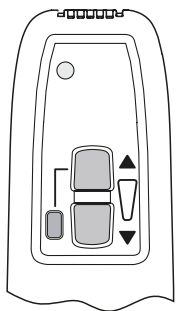
CHANGING THE BATTERY

- If BATT appears in upper right hand corner of the display or if the LED of the receiver becomes faint, please change the battery from transmitter or receiver. If the batteries lose power, the flame height can be adjusted by manually turning the temperature knob.

OPERATING INSTRUCTIONS

FOR OEM USE ONLY

HANDSET – G30-ZRHSO



- After the receiver has been connected to the motor and charged batteries have been correctly installed, the transmitter may be used to adjust the flame height or to turn the main gas on and off.
- 2 Button Safety Feature for Open Fires:
 - Simultaneously press both the (▲) button and the small button (a), see illustration 1, to its left to activate to turn on the main burner or increase the flame height.
 - For incremental increases in flame height, the small button must be continuously depressed while intermittently depressing the (▲) button.
 - To decrease the flame height or shut off the main burner, simply depress only the (▼) button.

NOTICE

Please note, the placement of the transmitter (temperature sensor) is important to assure proper temperature regulation. Generally, a more constant temperature will be assured, if the transmitter is not too far from the gas appliance. Before switching to AUTO or TIMER mode, press either button (▲) or (▼) to verify the reception (when the send symbol appears in the transmitter display, the receiver's LED must illuminate). For the AUTO or TIMER mode to function correctly, the transmitter must remain within range of the receiver. The transmitter should not be used in very close proximity to the receiver (less than 1 m / 3 ft) as this could, in very rare cases, produce a electronic switching error. This error could block the motor when the knob reaches the end points of its turning radius. The knob must then be turned manually to free the blockage.

The temperature is controlled by activating the motor for a specific length of time to adjust the appropriate flame height. This time is calculated by the transmitter and depends on variables such as room size, heater capacity, battery power, etc. Therefore, a few cycles are necessary before an optimum is achieved. If a low flame is sufficient to provide enough warmth to the room, then the appliance will cycle between low fire and off. This allows longer periods with the flame on and provides a more uniform room temperature.

FUNCTION, FEATURES AND SUPPORTED VALVES

	G30-ZRHS	G30-ZRHD	G30-ZRHSO	G30-ZRHTT
Standard	✓	×	✓	×
Temperature Display	×	✓	×	✓
For open Gas fires	×	×	✓	×
With Thermostat and timer	×	×	×	✓
Programmable	×	×	×	✓
Supported Valves	GV34, GV35, GV38 (GV30 and GV36 retrofitted with motor)	GV34, GV35, GV38 (GV30 and GV36 retrofitted with motor)	GV34, GV35 (GV36 retrofitted with motor)	GV34 and GV36 (retrofitted with motor)

NOTES

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