

GV60

Remote Electronic Ignition and Control System

ENGLISH – INSTALLATION AND OPERATING INSTRUCTIONS



FC CE 0085



Precision Engineering for Multiple Markets

MERTIK MAXITROL®

Exclusive Distributor for Maxitrol Company

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IMPORTANT SAFETY INFORMATION

⚠ WARNING

Fire or explosion hazard. 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 codes and 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.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this control or other appliances.

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.

Installation and service must be performed by a qualified installer, service agency, or the gas supplier. Installation shall conform with local codes, or in the absence of local codes, in accordance with the National Fuel Gas Code ANSI Z223.1/NFPA 54 or the IFGC or CSA B149.1. All piping and tubing must comply with local codes and ordinances.

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 can 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 that has been under water or in contact with water.

⚠ WARNING

ELECTRIC SHOCK HAZARD

- Read these instructions carefully. Failure to follow them could result in property damage, personal injury, or loss of life.
- This control must be electrically wired and operated in accordance with all codes and local regulations. Service and installation must be performed by a trained, experienced service technician.
- Do not use the control if you suspect it may be damaged.

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

- 1 x 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

- 4 x 1.5V "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 21).



Figure 21: Previous Handset

NOTICE


Replacement handsets for CSA models also must have the same part number (see label).

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 22) 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 22: Receiver Reset Button

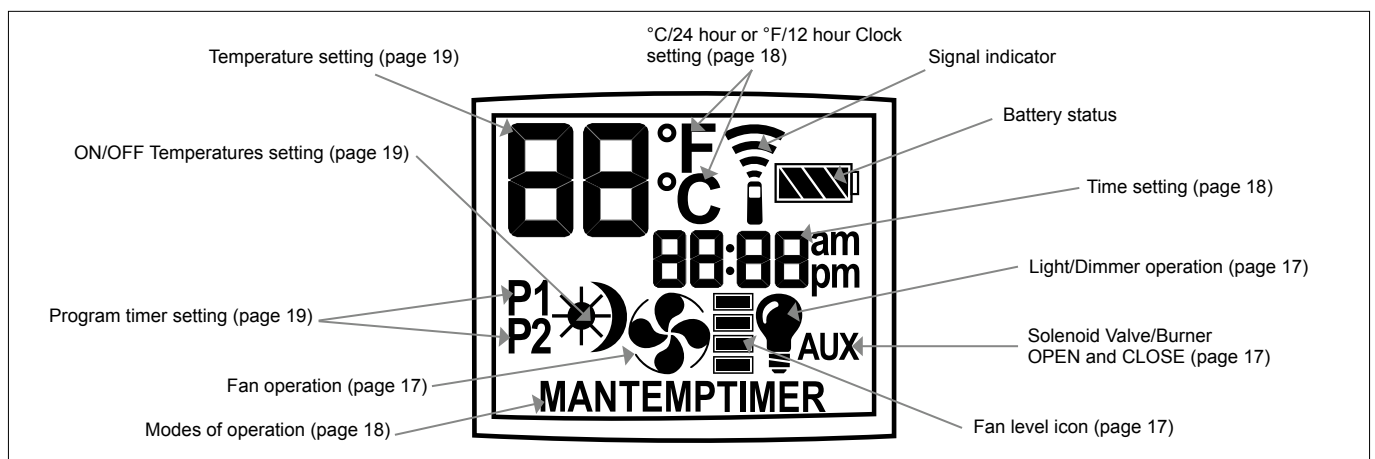


Figure 20

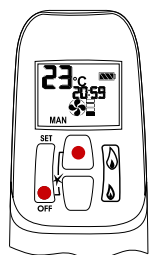
TO TURN ON APPLIANCE

⚠ 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 manual mode (CSA version, CE version).

Wall Switch/ Touch Pad/ Switch Panel

- Press button "B" (see figure 23) 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 21).

STANDBY MODE (Pilot Flame)

Handset

- Press and hold (small flame) to set appliance at pilot flame.

Wall Switch/ Touch Pad/ Switch Panel

- Press and hold button "C" (see figure 23) to set appliance at pilot flame.

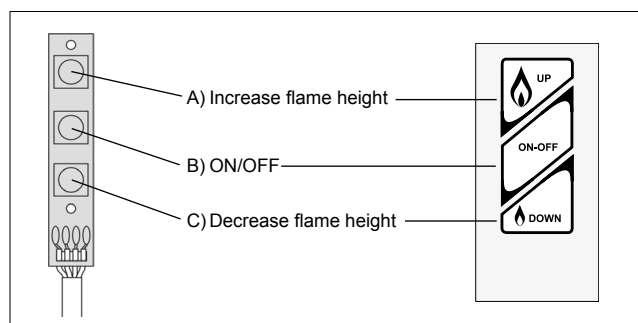
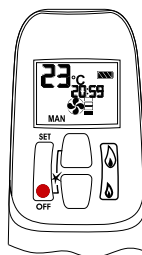


Figure 23: Switch Panel and Wall Switch/Touch Pad

TO TURN OFF APPLIANCE



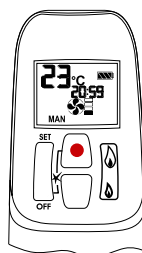
Handset

- Press **OFF** button.

Wall Switch/ Touch Pad/ Switch Panel

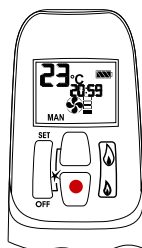
- Press button "B" (see figure 23).

FLAME HEIGHT ADJUSTMENT



Handset

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

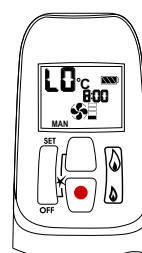


- Press and hold (small flame) button to decrease flame height or to set appliance at pilot flame.
- For fine adjustment tap the (large flame) or (small flame) buttons.

Wall Switch/Touch Pad/Switch Panel

(See figure 23)

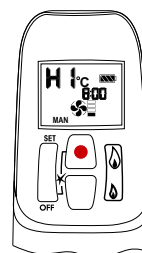
- Press and hold button "A" to increase flame height.
- Press and hold button "C" to decrease flame height or to set appliance at pilot flame.
- For fine adjustment tap button "A" or "C".



Designated Low Fire 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.



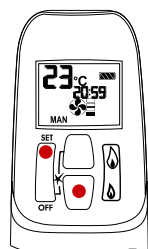
- Double-click (large flame) button. Flame automatically goes to high fire. "HI" will be displayed.

⚠ WARNING

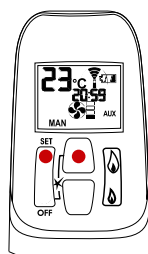
If the appliance will not operate, follow the instructions "TURN OFF GAS TO APPLIANCE" (page 21).

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 Burner OFF. Printed instructions are on the battery cover (see figure 24).
- Simultaneously press SET and 🔥 (large flame) buttons to switch Burner ON. (The AUX symbol on the display indicates the solenoid valve is OPEN.)

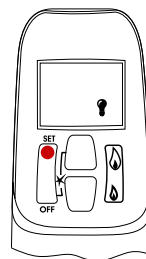
NOTE: The operation of the AUX is blocked in timer OFF mode, when the setting of the Nighttime Setback Temperature is “--”.



Figure 24: Instructions for Latching Solenoid Valve (on battery cover)

LIGHT/DIMMER OPERATION

💡 – Light/Dimmer



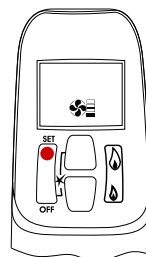
- Briefly press SET button to scroll to 💡 (light bulb) mode. Light bulb icon flashes.
- Press and hold 🔥 (large flame) button to turn ON the light or increase brightness.
- Press and hold 🔥 (small flame) button to decrease brightness.
- In the Light/Dimmer mode, the OFF button shuts OFF the light.
- 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

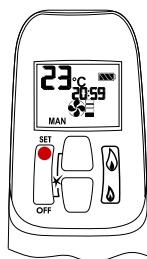
The circulating fan has 4 speed levels from low (1 bar) to high (4 bars).



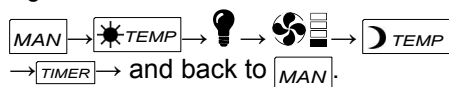
- Briefly press SET button to scroll to 🌀 (fan) mode. Fan and Level icons flash.
- Press 🔥 (large flame) button to switch ON and increase fan speed.
- Press 🔥 (small flame) button to decrease fan speed. To turn OFF fan, press 🔥 (small flame) button until all 4 speed level bars disappear.

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.

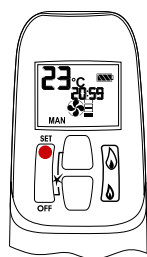
MODES OF OPERATION



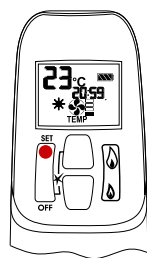
- Briefly pressing the SET button changes the mode of operation in the following order:



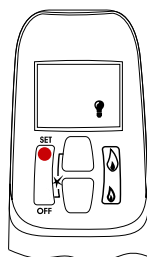
NOTE: Manual mode can also be reached by pressing either the (large flame) or the (small flame) button.



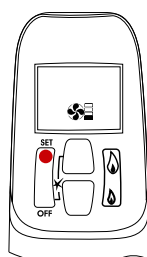
- MAN** – **Manual Mode**
Manual flame height adjustment.



- TEMP** – **Daytime Temperature Mode**
(Appliance must be in standby 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.

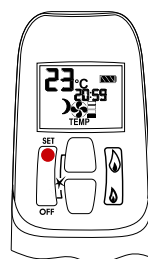


- Light/Dimmer Setting Mode**
Turns light/dimmer ON and OFF and adjusts brightness.

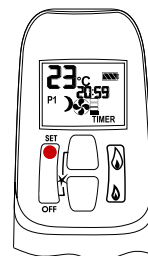


- Circulating Fan Setting Mode**
Turns circulating fan ON and OFF and adjusts fan speed.

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



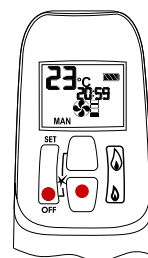
- TEMP** – **Nighttime Setback Temperature Mode** (Appliance must be in standby mode; pilot ignited)
The room temperature is measured and compared to the Nighttime Setback Temperature. The flame height is then automatically adjusted to achieve the Nighttime Setback Temperature.



- 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.

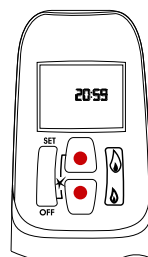
NOTE: The display shows the set temperature every 30 seconds.

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

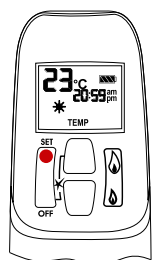


- The Time display will flash after either:
a) Installing the battery or
b) Simultaneously pressing the (large flame) and (small flame) buttons.
- Press (large flame) button to set the hour.
- Press (small flame) button to set the minute.
- Press **OFF** or simply wait to return to manual mode.

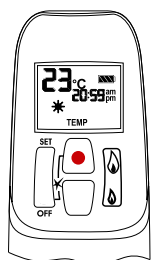
SETTING THE ON/OFF TEMPERATURES

Setting the “DAYTIME” Temperature

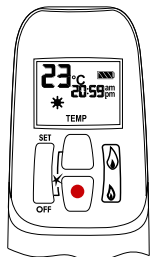
DEFAULT SETTINGS: TEMP (sun), 23 °C/74 °F



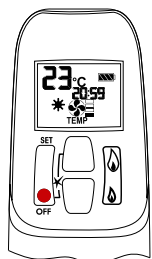
- Briefly press SET button to scroll to TEMP TEMP (sun) mode. Hold the SET button until the TEMP flashes.



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



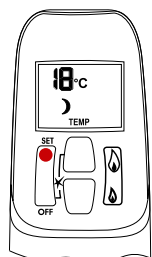
- Press (small flame) button to decrease Daytime Set Temperature.



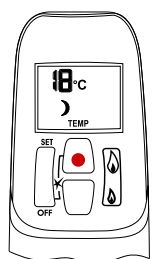
- Press OFF or simply wait to complete programming.

Setting the “NIGHTTIME SETBACK” Temperature

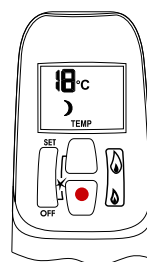
DEFAULT SETTINGS: TEMP (moon), “--” (OFF)



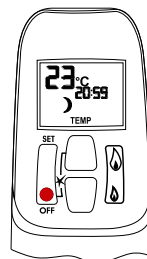
- Briefly press SET button to scroll to TEMP TEMP (moon) mode. Hold the SET button until the TEMP flashes.



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



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



- Press OFF or simply wait to complete programming.

SETTING PROGRAM TIMERS

Default Settings

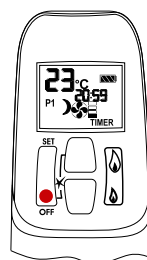
CE: Program 1: P1 6:00 P1 8:00

Program 2: P2 23:50 P2 23:50

CSA: Program 1: P1 6:00^{am} P1 8:00^{am}

Program 2: P2 11:50^{pm} P2 11:50^{pm}

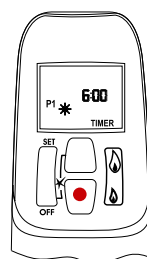
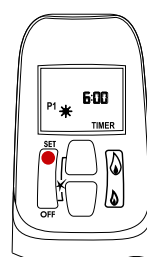
- 2 ON times can be programmed per day.
- CE: The day starts at 0:00, ends at 23:50.
- CSA: The day starts at 12:00^{am}, ends at 11:50^{pm}.
- The ON/OFF times have to be programmed in the order P1 ≤ P1 < P2 ≤ P2 .
- If P1 = P1 or P2 = P2 the timer is deactivated.
- To have the fire over night, it can be set:
CE: P2 23:50 and P1 0:00
CSA: P2 11:50^{am} and P1 12:00^{am}



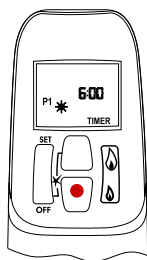
- Select Timer Mode by briefly pressing the SET button.


Setting P1 ON Time

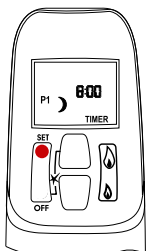
- Hold the SET button until P1 (sun) is displayed and the time flashes.




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

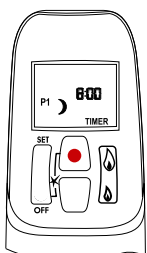



- Set the minutes by pressing the  (small flame) button.

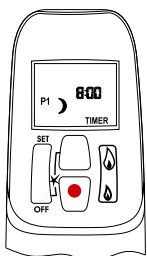



Setting P1 OFF Time

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




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




- Set the minutes by pressing the  (small flame) 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 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.
- This concludes programming Timers P1 and P2. Press **OFF** or wait. 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 2.** 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 25, page 21).

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 25, page 21). 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" (page 21).

TO 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).

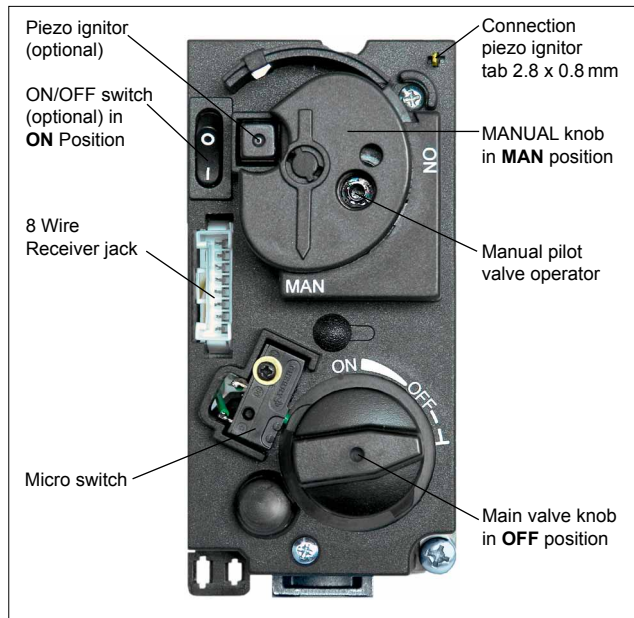


Figure 25: Combination control, cover

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.

AUTOMATIC TURN DOWN

6 Hour no Motor Movement

(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

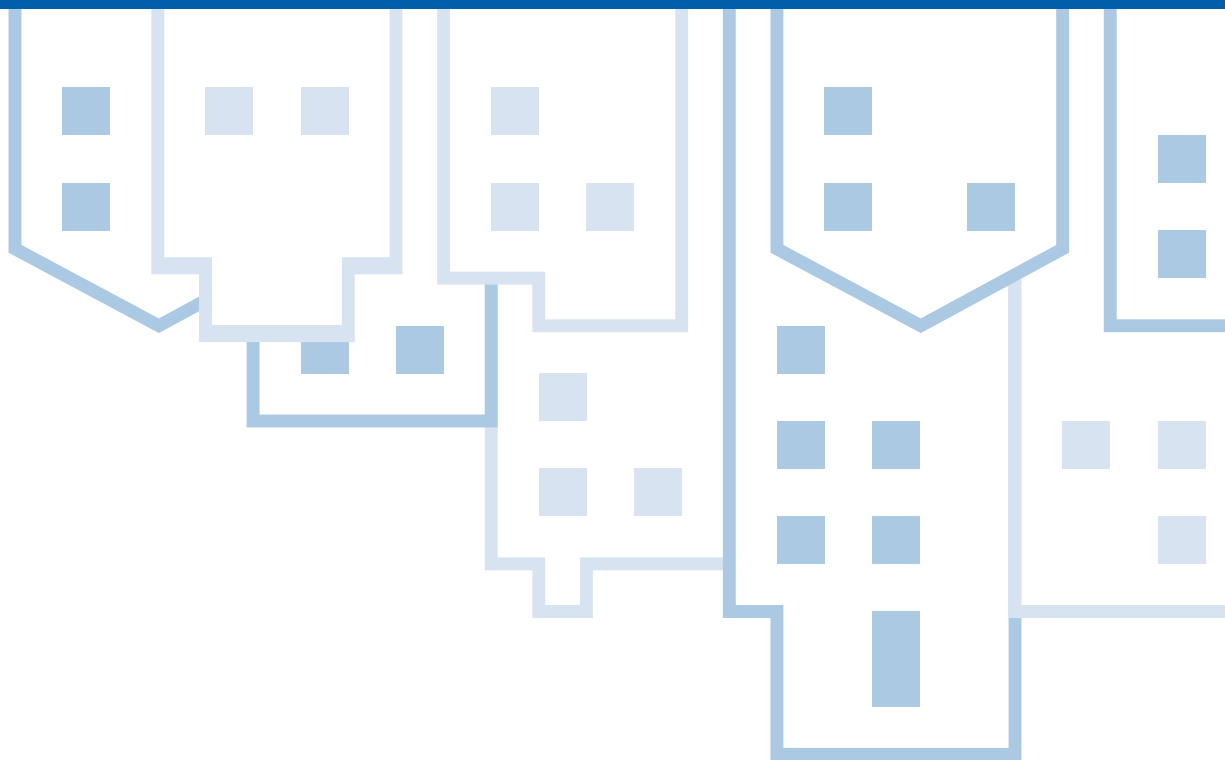
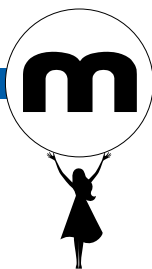
(only if module is connected)

- Valve turns to pilot flame if the temperature in the receiver is higher than 140°F (60°C). The main burner comes 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.



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