MAXITROL®


**ENGLISH**

# GV60 Bidirectional Control System

**for use with myfire Puck™, Symax® Handsets and myfire® App**

Installation and Operating Instructions

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# IMPORTANT INFORMATION

## SAFETY INFORMATION

**⚠ WARNING**

**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.

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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.

**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 compliance 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.

**FAILURE OF BATTERY OR MAINS POWER TO THE RECEIVER**

If the receiver's power supply is interrupted the Maxitrol Combination Gas Control will not turn off the gas supply to the heating appliance. It will remain in the same gas flow position set prior to the power failure regardless of the room temperature. Once the receiver power is restored, the receiver will return to a normal operating mode. The pilot safety system will continue to function normally during down power occurrences.

It is the OEM's responsibility to follow all gas appliance safety standards and protect the Maxitrol products and components from exceeding maximum/minimum temperature limits (refer to appropriate product literature). The OEM is responsible for the safety of the heating appliance operation.

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 compliance with the National Fuel Gas Code ANSI Z223.1 / NFPA 54 or the IFGC or CSA B149.1 or AGA AS 4624; Rules Governing. 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 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.

Check the Exhaust/Flue Damper on converted or newly installed fireplaces. Damper position must be in accordance with Manufacturer's Installation Instructions and all applicable standards. Failure to follow them could result in a fire or explosion causing 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.

## GENERAL INSTALLATION INFORMATION

***NOTICE***

It is the responsibility of the OEM to consider the following:

- The location of the GV60 system components will significantly affect the radio signal strength.
- The type of materials (e.g. sheet metal) used in the construction of the gas fireplace will significantly effect the radio signal strength.
- Operate the system with a dedicated mains power supply and/or batteries.
- Do not use near household electrical wiring and/or magnetic fields.
- Other transmitters using the same signal will negatively affect the radio signal strength.
- Adjustment of the on-board antenna on the receiver can improve signal strength.
- Do not store or locate the GV60 system components in a hot, cold, or humid environment.
- Make sure that the end user can access the receiver for a reset or to synchronize a new transmitter.
- LED installation, including LED drivers, cabling and RGB LEDs must be isolated from the metal parts of the gas appliance. Otherwise, the electronics may not function properly.

# DESCRIPTION AND COMPONENTS

## DESCRIPTION

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

## COMPONENTS


Figure 1: Handsets

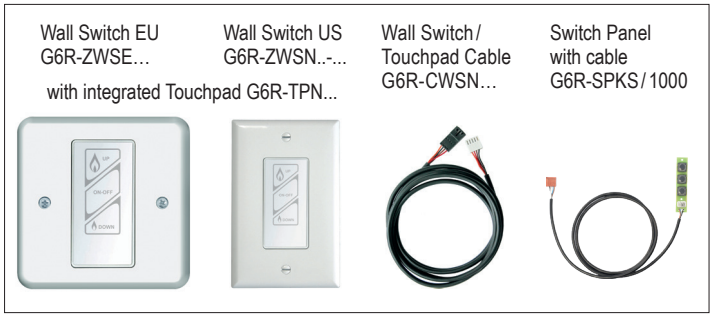


Figure 2: Operation

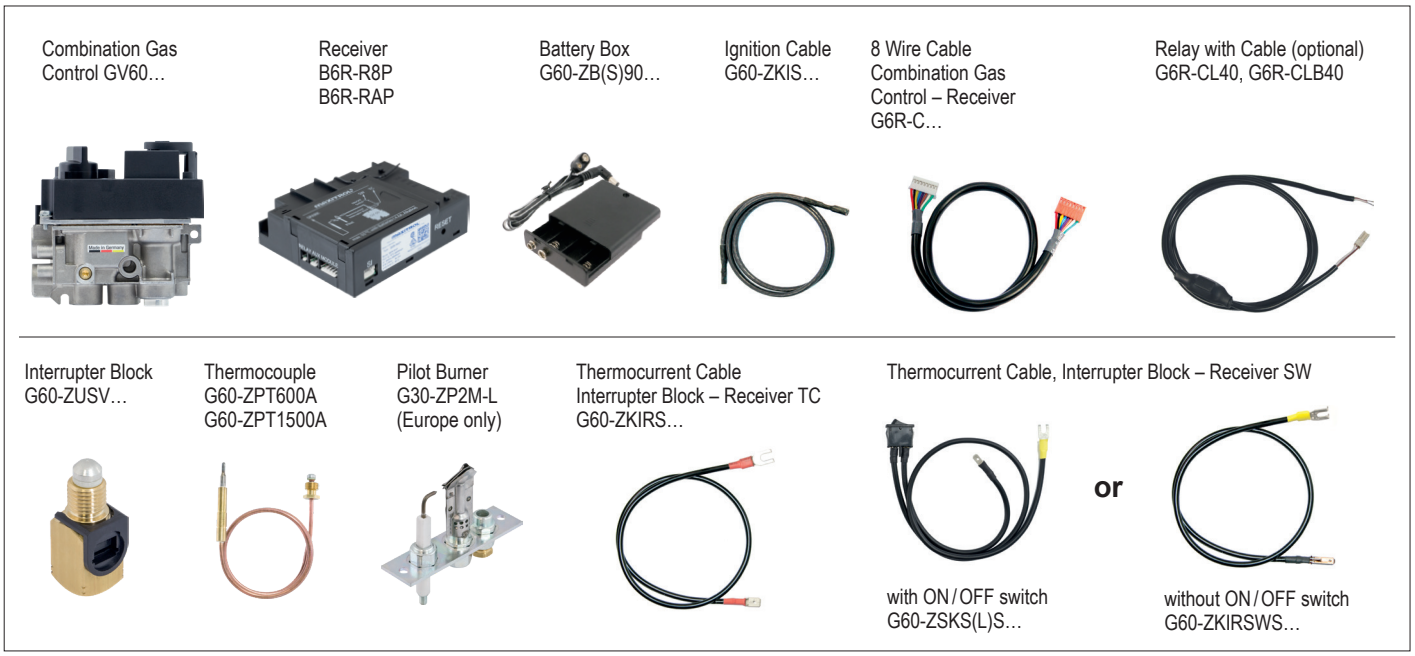


Figure 3: Basic

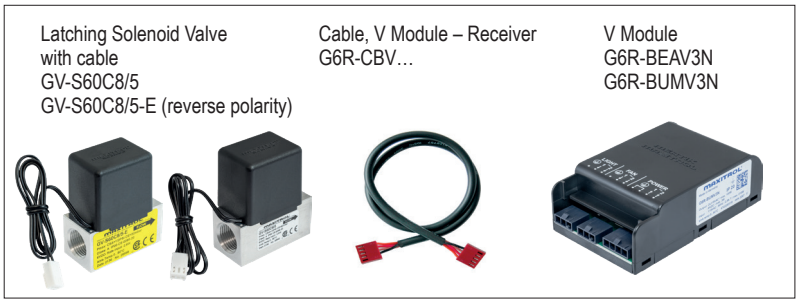


Figure 4: Additional Function (Latching Solenoid, Fan, Light / Dimmer)


Figure 5: Mains Adapter

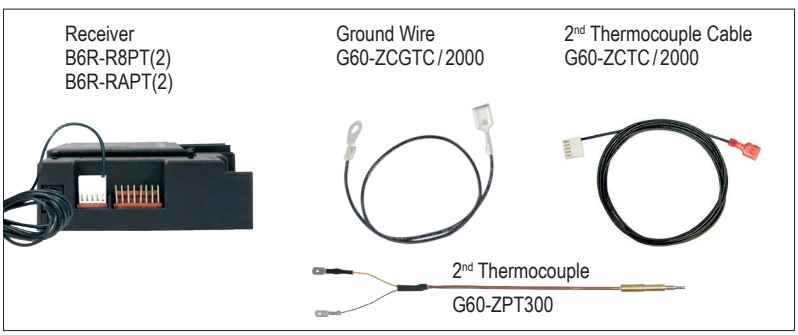


Figure 6: 2nd Thermocouple Option

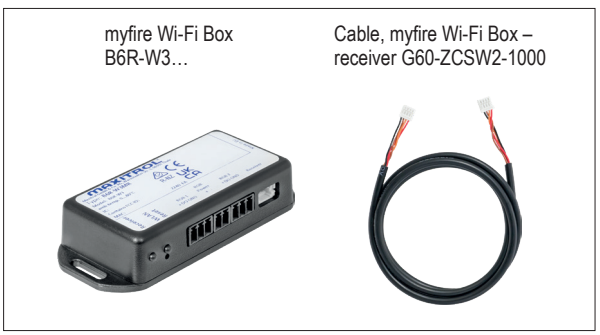


Figure 7: myfire App setup

# COMBINATION GAS CONTROL / SYSTEM

## TECHNICAL DATA

APPROVALS
- CSA: Multifunctional gas control in compliance with ANSI Z21.78 6.20 and ANSI Z21.20 6.20 for U.S. & Canada
- CE: Gas Appliances Regulation EU/2016/426 (GAR) and DIN EN 298, DIN EN 126, DIN EN 13611, 2014/53/EU (RED)
- AGA: AS 4624; Rules Governing

FUEL GASES
- CSA: Suitable for natural, manufactured, mixed gases, liquefied petroleum gases, and LP gas-air mixtures.
- CE: Suitable for gases in compliance with DIN EN 437.
- AGA: Natural gas (NG), simulated natural gas (SNG), town gas (TG), liquified petroleum gases (LPG)

PRESSURE DROP / CAPACITY
- CSA: @ 1″w.c. at 65,000 BTU / hr for 0.65 s.g. natural gas
- CE, AGA: 2.5 mbar (0.25 kPa) at 1.2 m³ / h air

RANGE OF REGULATION
- CSA: 10,000 to 85,000 BTU / hr
- CE: Class C according EN 88
- AGA: Type B Class 3 Grade 20

REGULATOR ADJUSTMENT
- CSA: 3″w.c. to 5″w.c.; 8″w.c. to 12″w.c.; 3″w.c. to 12″w.c. Convertible Regulator: 3 to 4.5″NG / 8.5 to 11.5″LP
- CE: 2.5 to 40 mbar (0.25 to 4 kPa)
- AGA: 3″w.c. to 12″w.c. (7.5 to 30 mbar)

MAXIMUM INLET PRESSURE
- CSA: ½ psi (14″w.c.)
- CE, AGA: 50 mbar (5 kPa)

MAIN GAS CONNECTION
- CE, AGA, CSA: Rp ⅜ (ISO 7-1 / DIN EN 10226-1), ⅜″NPT (ANSI / ASME B1.20.1), compression fittings for 8 mm, 10 mm or 12 mm tube

PILOT GAS CONNECTION
- CSA: 7 / 16-24 UNS-2A compression for ¼″ or ⅜″ tubing
- CE, AGA: M10 x 1 compression for 4 mm or 6 mm tubing

INLET AND OUTLET CONNECTION
- Side or bottom of control

MAXIMUM ALLOWED TORQUE
- INLET, OUTLET, LATCHING SOLENOID ⅜″
  - CSA: 280 inch-pounds
  - CE, AGA: 35 Nm
- LATCHING SOLENOID 8 mm tube
  - CE, AGA: 20 Nm
- PILOT GAS CONNECTION
  - CSA: 100 inch-pounds
  - CE, AGA: 15 Nm

THERMOCOUPLE / THERMOCURRENT INTERRUPTER BLOCK
- 11 / 32-32 UNS, M10x1, M9x1, M8x1

AMBIENT TEMPERATURE RANGE

| | | |
|---|---|---|
| CSA: | Combination Gas Control: | 32 °F to 176 °F |
| | Latching Solenoid Valve: | 32 °F to 176 °F |
| | Misc. cables: | 221 °F |
| | Relay with Cable: | 158 °F |
| | Receiver without batteries: | 32 °F to 176 °F |
| | Receiver with batteries: | 32 °F to 131 °F |
| | V-Module: | 32 °F to 176 °F |
| | Ignition cable: | 32 °F to 302 °F |
| CE, AGA: | Combination Gas Control: | 0 °C to 80 °C |
| | Latching Solenoid Valve: | 0 °C to 80 °C |
| | Misc. cables: | 105 °C |
| | Relay with Cable: | 70 °C |
| | Receiver without batteries: | 0 °C to 80 °C |
| | Receiver with batteries: | 0 °C to 55 °C |
| | V-Module: | 0 °C to 80 °C |
| | Ignition cable: | 0 °C to 150 °C |

**⚠ WARNING**

It is the manufacturer's responsibility to determine that the appliance, components, and accessories are operating within their ambient temperature limit. Suppliers and/or materials for components and accessories may change from time to time.

POWER CONSUMPTION
See at www.maxitrol.com/literature-downloads, document GV60-DS-EN..PCG “Power Consumption Guide”.

GENERAL RADIO FREQUENCY INFORMATION

Amendment: This device complies with Part 15 of the FCC Rules. The device contains licence-exempt transmitter(s) / receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device. Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment. To satisfy ISED exposure requirements a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during operation. To ensure compliance, operations at closer distances than this are not recommended.

**NOTE:** 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 according to 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.

Compliant with the EU-Radio Equipment Directive 2014/53/EU (RED).

**⚠ WARNING**

It is the appliance manufacturer’s responsibility to determine GV60’s suitability for a specific application. Do not attempt to remove screws from the top of control. Do NOT change any adjustment or parts marked with red tamper indicating paint and/or a red sticker. Motor knob is not to be removed.
1. Turn off gas supply at the appliance service control before starting installation, and perform a Gas Leak Test after the installation is complete.
2. Install the filter or sediment trap (where required) in the gas supply line to prevent contamination of the downstream control (see figure 8, page 5).
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.

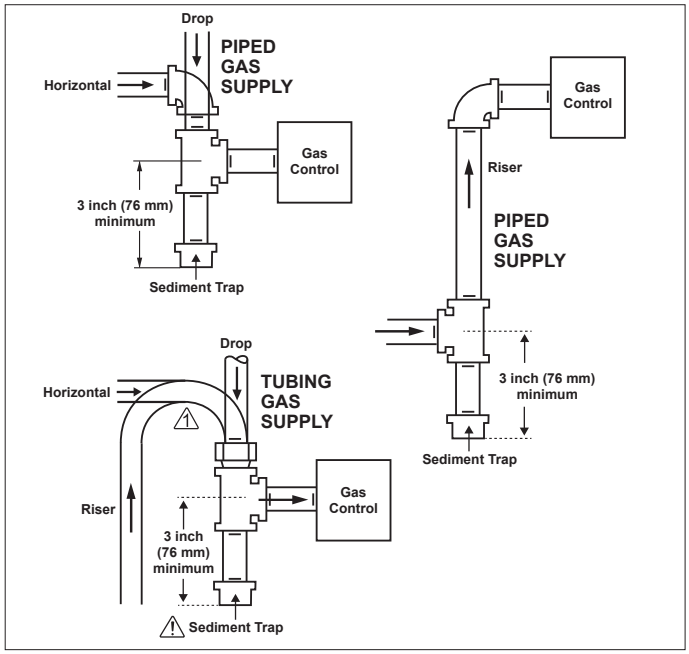


Figure 8: Sediment Trap (where required)

## MOUNTING POSITION AND LOCATION

POSITION
In upright position, gas control knobs are on top of the control. Control may be mounted 0° to 90° any direction (including vertical) from the upright position. Control must NOT be mounted upside down.

LOCATION
Locate the combination gas control where it is not exposed to steam cleaning, high humidity, dripping water, corrosive chemicals, dust or grease accumulation, or excessive heat.

To assure proper operation, follow these guidelines:
- Locate combination gas control in a well-ventilated area.
- Mount combination gas control high enough to avoid exposure to flooding or splashing water.
- Make sure the ambient temperature does not exceed the ambient temperature ratings for each component.

**⚠ WARNING**

GV60 standard version is suitable for indoor use only.

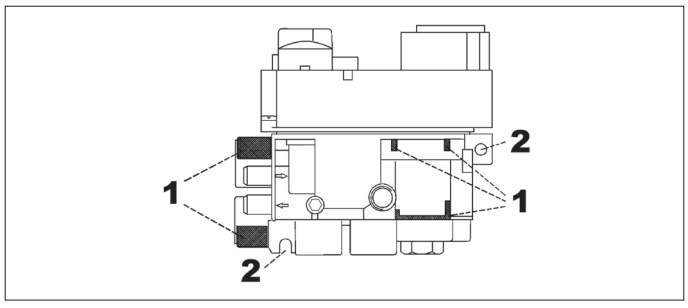


Figure 9: 1 = Clamp Areas, 2 = Mounting Points

## GAS CONNECTIONS

**⚠ WARNING**

**Fire or Explosion Hazard. Can cause property damage, severe injury, or death.** Do NOT bend tubing at control connection point after compression fitting has been tightened. This can result in a gas leak at the connection.

**⚠ WARNING**

Use new, properly reamed pipe free from metal or material chips. When tubing is used, assure that ends are square, deburred and clean. All tubing bends must be smooth and free of distortion.

When threads are tightened, the control must be held at the designated clamping points (see figure 9).

**⚠ WARNING**

Do not overtighten connections. Overtightening can damage the control body resulting in a leak or a control malfunction. (see Maximum allowed torque on page 4)

**Main Gas (Tubing Connections)**
1. Do not use pipe joint compound. Maxitrol does NOT recommend the use of Teflon®/PTFE tape.
2. Slip nut and ferrule over tubing.
3. Slide nut and ferrule into place, and insert tubing into inlet/outlet connection until it bottoms. Turn finger tight.
4. Use a wrench to tighten nut about 1 turn beyond finger tight.

**Main Gas (Pipe Connections)**
1. Maxitrol does NOT recommend the use of Teflon®/PTFE tape.
2. Pipe to be inserted into the control must be the proper thread length and to gauge. Thread that is cut too long can cause distortion or malfunction if inserted too deeply.
3. Apply a moderate amount of approved pipe sealant to the pipe only, leaving the two end threads bare.
4. Connect pipe to control inlet and outlet.

**Pilot Gas (Tubing Connections)**
1. Do not use pipe joint compound. Maxitrol does NOT recommend the use of Teflon®/PTFE tape.
2. Slip fitting over tubing.
3. Insert pilot tubing into pilot outlet until it bottoms. Turn fitting finger tight.
4. Turn with a wrench until you shear off the ferrule. Turn an additional ¾ turn to make a gas tight seal.
5. Connect other end of tubing to pilot burner.

**⚠ WARNING**

The combination gas controls must be in the closed position when the gas supply line is tested for leakage up to 150 mbar (15 kPa; 2 psi). Above 150 mbar (15 kPa; 2 psi) the control must be isolated from the gas supply.

## PERFORM GAS LEAK TEST

1. Check carefully for gas leaks immediately after the control has been installed and the gas turned on. **Do this before attempting to operate the appliance or other gas burning device.**
2. Using a clean brush, apply an approved leak test solution to the tubing and pipe connections. Bubbles indicate a leak.
3. If no leakage is detected, light the main burner.
4. With the main burner in operation, apply an approved leak test solution to all tubing and pipe connections (including adapters) and the control inlet and outlet. Bubbles indicate a leak.
5. If a leak is detected, tighten pipe connections (including adapters) according to “Gas Connections”.

**⚠ WARNING**

Do NOT use if leakage is detected. There is a danger of fire or explosion depending on conditions.

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## WIRING

(see figures 28-32, pages 22-26)

Connect all components according to the appropriate wiring diagram.
- When GV60 components are installed, make sure they are not exposed to dirt, oil, grease or other chemical agents.
- Do not permit foreign particles under plastic cover.
- Place **ON**/**OFF** switch (if equipped) where it is easily accessible for the user.

***NOTICE***

- Wiring of control and receiver must be completed before starting ignition. Failure to do so could damage the electronics.
- Ensure proper grounding of the Combination Gas Control to an unpainted surface of the appliance (see ⏚ icon in figures 28-34, pages 22-28).

## THERMOCOUPLE CIRCUIT

Total resistance of thermocouple circuit should be minimized to ensure proper operation.

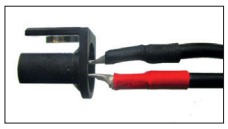

Figure 10

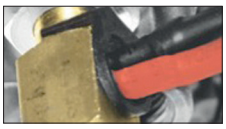

Figure 11

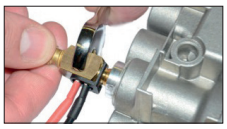

Figure 12

***NOTICE***

The use of the Maxitrol interrupter block is recommended. Keep connection of interrupter block and thermocouple clean and dry. Avoid excessive bending of the thermocouple tubing during installation (min. 1" radius; 2.5 cm) as this can cause it to fail.

1. Tighten brass interrupter block into control ¼ turn beyond finger tight. If necessary, an additional ¼ turn is possible.

   **CAUTION:** Further tightening will damage the plastic sleeve in the brass interrupter block and will cause a short in the circuit.

   **NOTE:** Do not over-torque or under-torque the interrupter block to achieve a specific slot alignment.

2. Slide spade connectors into plastic insert (see figure 10).
3. Slide plastic insert with spade connectors into the brass interrupter block until it snaps (see figure 11).
4. While holding the interrupter block with a wrench, thread the thermocouple into the female end of the interrupter block ¼ – ½ turn beyond finger tight (see figure 12).

## IGNITION CABLE

AMBIENT TEMPERATURE RANGE
CSA: 32 °F to 302 °F
CE, AGA: 0 °C to 150 °C

**CAUTION:** Damage and/or interference will occur to the GV electronic system if the ignition cable (high voltage) is not separated from other GV system wiring. Maxitrol recommends using a protective sleeve to further isolate the ignition cable.

***NOTICE***

Do not damage the ignition cable while attaching it to the ignition electrode. When the cable is in place, avoid contact with sharp objects or edges. With cables longer than 900 mm, avoid contact with metal parts, as this could decrease spark.

## RECEIVER

RADIO FREQUENCY
CSA: 918.0 MHz for U.S. (FCC), Canada (ISED), (handset, receiver)
CE: 868.1 MHz for Europe (handset, receiver)
AGA: 918.0 MHz for New Zealand (RNZ) and Australia (ACMA) (handset, receiver)
(see general radio frequency information on page 4.)

POWER SUPPLY
Internal power supply:
- Batteries (Receiver)
  4x AA batteries, 1.5 V (quality alkaline recommended)

External power supply:
- Battery box G60-ZB(S)90…
  4x AA batteries, 1.5 V (quality alkaline recommended)
- G60-ZMA3 mains adapter (6 V DC/ 1A)
- V-module via 6-pin interface

***NOTICE***

- Only the Maxitrol AC mains adapter (see figure 5, page 3) or one preapproved by Maxitrol can be used. Use of other adapters can render the system inoperable.
- The antenna (see page 22) must not cross or come into contact with the ignition wire or any other cable. This will render the receiver inoperable.

**⚠ WARNING**

Only the Maxitrol approved cables and electronics can be plugged into the receiver connectors. Maxitrol assumes no liability in case of unauthorized use of the system and the warranty will be void.

### Batteries

***NOTICE***

- Wiring of control and receiver must be completed before starting ignition. Failure to do so could damage the electronics.
- The handsets and receivers are not interchangeable with previous electronics G6R and B6R-R8(9)U(T).

**⚠ WARNING**

To avoid damaging the electronics, do NOT use metal tools to remove the batteries from the handset/receiver.

***NOTICE***

With bidirectional system, one handset controls one receiver only.

**⚠ 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.

- Low battery indication: frequent beeps for 3 seconds when motor turns.
- The V module for fan speed control and light / dimmer provides the receiver with power. The batteries in the receiver can be used for automatic backup in case of power outage.

***NOTICE***

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

**Radio Frequency Receiver and Handset**
A code is selected automatically for all Maxitrol electronics from among 65,000 codes available. The receiver must be paired with a handset.

## SYNCHRONIZATION RECEIVER / HANDSET

(First time use only)

1. Insert batteries or connect AC mains power to the receiver. The V Module for circulating fan and light / dimmer includes a mains adapter. With mains adapter, batteries can be used for backup.
2. Place **ON** / **OFF** switch (if equipped) to **ON** position.
3. The receiver has to learn the Symax code:
   Press and hold the receiver's reset button (see figure 28, page 22) until you hear two (2) beeps. After the second, longer beep, release the reset button. Within the subsequent 20 seconds press the ▼ button on the Symax. "CONN" and a running number from 1 to 8 are displayed on the Symax confirming the synchronization and data exchange is in process (see figure 13). Two (2) short beeps confirm the code is set. After successful synchronization the current state of the gas fire is displayed on the Symax.


Figure 13: Synchronization of Symax in process

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

**NOTE:** When the RF receiver is placed in the appliance, the surrounding metal can reduce reception considerably.

**NOTE:** Both the receiver and the Symax transmit and receive signals (bidirectional). The Symax and receiver sync status information every 10 s during the first 2 min and afterward every 4 to 6 min.

**NOTE:** If the synchronization process is interrupted before completion, failure code F09 is displayed. Press any button before repeating the synchronization process.

***NOTICE***

The handsets and receivers are not interchangeable with previous electronics G6R and B6R-R8(9)U(T).

## SYNCHRONIZATION RECEIVER / MYFIRE PUCK™

(First time use only)

1. Insert batteries or connect AC mains power to the receiver. The V Module for circulating fan and light / dimmer includes a mains adapter. With mains adapter, batteries can be used for backup.
2. Place **ON** / **OFF** switch (if equipped) to **ON** position.
3. The receiver has to learn the myfire Puck™ code:
   Press and hold the receiver's reset button (see figure 28, page 22) until you hear two (2) beeps. After the second, longer beep, release the reset button. Within the subsequent 20 seconds press and hold the "**–**" button on the myfire Puck™ (approx. 4 seconds) until two (2) short beeps confirm the code is set.

**NOTE:** This is a one time setting only, and it is not required after changing the batteries in the myfire Puck™ or receiver.

**NOTE:** The receiver transmits and receives (bidirectional) signals and the myfire Puck™ (unidirectional) transmits signals. myfire Puck™ sends status information every 4 to 6 min to the receiver.

**NOTE:** When the receiver is placed in the appliance, the surrounding metal can reduce reception considerably.

***NOTICE***

The handsets and receivers are not interchangeable with previous electronics G6R and B6R-R8(9)U(T).

## V MODULE

POWER SUPPLY

| | | |
|---|---|---|
| CSA: | Inlet: | 115 VAC / 60 Hz; 210 VA |
| | Outlet: | 115 VAC / 60 Hz; 100 VA each |
| | Built-in fuse: | 2.5A |
| CE, AGA: | Inlet: | 230 VAC / 50 Hz; 210 VA |
| | Outlet: | 230 VAC / 50 Hz; 100 VA each |
| | Built-in fuse: | 2.5A |

AMBIENT TEMPERATURE RANGE

| | |
|---|---|
| CSA: | 32 °F to 176 °F |
| CE, AGA: | 0 °C to 80 °C |

Follow wiring diagram (see figure 31, page 25). Connect the Fan and Light first and then connect the power supply. An LED indicates the power is **ON**. Use Molex connectors or connect wires to screw terminals.

***NOTICE***

The antenna (see page 22) must not cross or come into contact with the ignition wire or any other cable. This will render the receiver inoperable.

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## KNOB SETTINGS

Gas control knobs function as follows (see figure 14):

| KNOB | POSITION | FUNCTION |
|---|---|---|
| Main valve knob | OFF | Prevents main gas flow through valve. |
| Main valve knob | ON | Permits main gas flow through valve if the pilot is lit and thermocouple is generating sufficient power. |
| Manual knob | MAN | Allows the pilot to be manually ignited and prevents main gas flow. |
| Manual knob | ON | Allows for automatic ignition. |

## ADJUSTMENT

**⚠ WARNING**

- It is the appliance manufacturer's responsibility to determine GV60's suitability for a specific application.
- Do not attempt to remove screws from the top of control. Do NOT change any adjustment or parts marked with red tamper indicating paint and/or a red sticker. Motor knob is not to be removed.

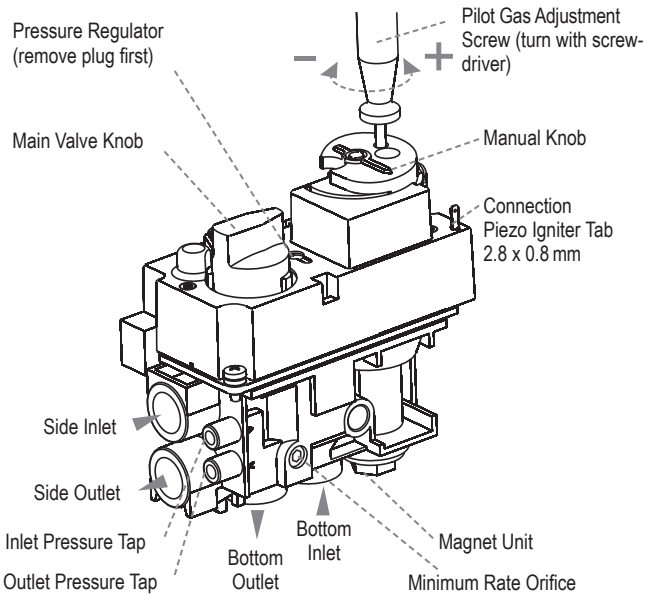


Figure 14: GV60, Connections and Adjustment Options

### Pilot Flame Adjustment

(Vented Units Only)

The pilot flow adjustment is preset to maximum at the factory. The pilot flame should envelope ⅜" to ½" of the thermocouple (see figure 15).

1. The adjustment screw can be reached through a hole in the MANUAL knob (see figure 14).
2. Turn the MANUAL knob to the **ON** position.
3. It is now possible to pierce through a film on the cover with a screwdriver to reach the adjustment screw beneath.
4. Turn the adjustment screw clockwise ↻ to decrease or counterclockwise ↺ to increase pilot flame.

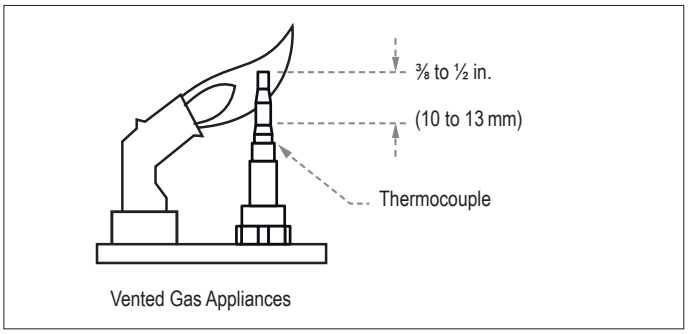


Figure 15: Proper Flame Impingement on Thermocouple

### Outlet Pressure Adjustment

(Vented Units Only)

STANDARD REGULATOR OR THROTTLE
(Throttle CE Only)

1. Connect a pressure manometer to the control outlet pressure tap. Pressure tap is opened by turning the screw counterclockwise ↺.
   Pressure regulator or throttle are located under the cover and can be reached by removing the plug (see figures 14 and 16).
2. Turn MANUAL knob and main valve knob to the **ON** position.
3. Turn pressure regulator adjustment screw to set required burner pressure (high fire). Pressure is increased by turning clockwise ↻ (pressure regulator models), or decreased by turning counterclockwise ↺.

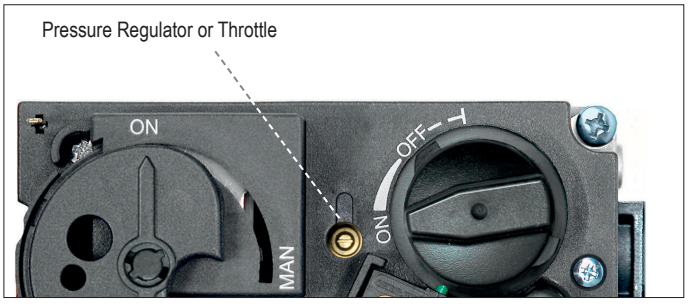


Figure 16: Combination Gas Control GV60, Cover

**NOTE:** Throttle model's pressure is increased by turning counterclockwise ↺; or decreased by turning clockwise ↻.

4. After adjustment, replace the plug.
5. If no other adjustments are required, close pressure tap(s) by turning the screw(s) full clockwise ↻.
   Check all connections / pressure tap(s) for leaks.
6. If the desired outlet pressure or flow cannot be achieved by adjusting the control, check the control inlet pressure using a manometer at the control inlet pressure tap. If the inlet pressure is in the normal range, replace the control; otherwise, take necessary steps to assure proper gas pressure to the control.

CONVERTIBLE PRESSURE REGULATOR
(CSA Only; Optional)

Convertible regulators are designed to deliver either of two fixed outlet pressures for Natural Gas (NG) or LP Gas. To change from one gas to the other, turn the conversion plug (see figure 17, page 9) counter clockwise to remove. Unsnap and remove the plastic part, rotate it 180°, and then slide it back on the conversion plug until it snaps. Turn the conversion plug clockwise ↻ until it bottoms out.

**NOTE:** Unscrew only the Conversion Plug with a slotted screw driver. Do not adjust the smaller screw under the red tamper proof paint (see figure 17, page 9).

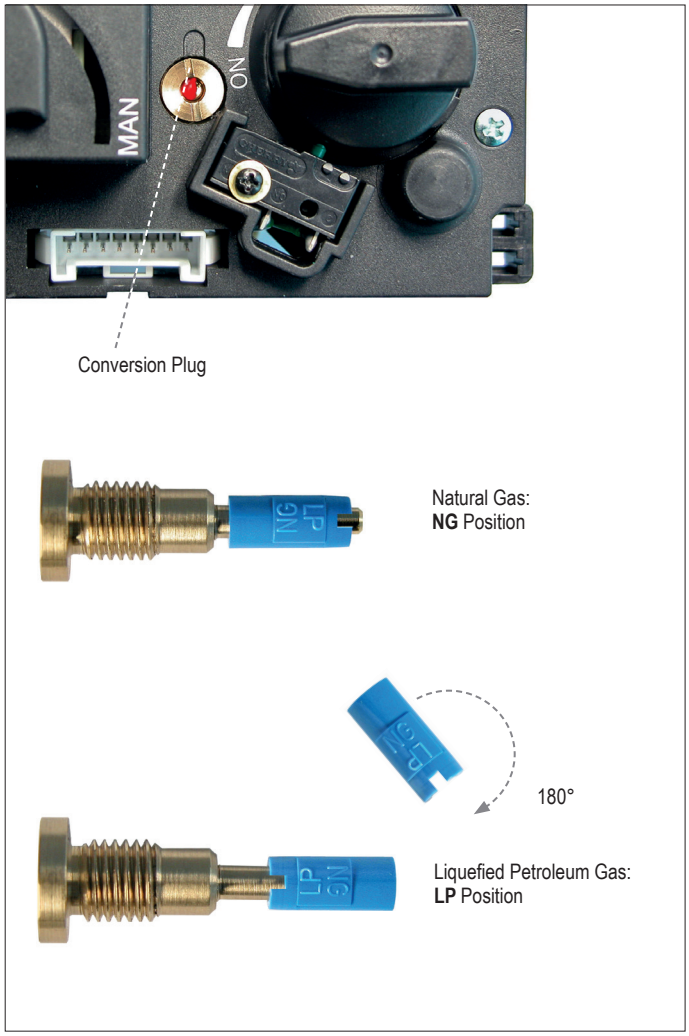


Figure 17: Conversion from one gas to another

**Minimum Gas Flow Adjustment**
(Vented Units Only)

1. Set the control into low fire setting by turning the motor knob to **OFF** position and back until the valve opens.
2. The minimum rate can be set either by screwing in a calibrated minimum rate screw (fixed orifice) or an adjustable minimum rate screw. Controls with adjustable screws without a customer specific setting are factory set at maximum flow.
3. Turn the screw clockwise ↻ to decrease the minimum flow.
4. Care should be taken to screw the fixed orifice until it stops.
5. Close pressure tap(s) by turning the screw(s) full clockwise ↻. Check all connections / pressure tap(s) for leaks.

**Changing the Fuel Type**
(Vented Units Only; see page 8 “Convertible Pressure Regulator”)

GV60 can be converted to meet the manufacturer’s requirements for a specific gas type. Adjustment of pressure regulator, minimum rate and pilot gas are according to the above-mentioned instructions. To convert for LPG CE it is necessary to block the pressure regulator by turning the regulator adjustment screw fully to the bottom limit (or the throttle adjustment screw fully to the upper limit).

## FINAL CHECK

Observe several complete **ON** / **OFF** cycles to ensure proper operation. During these cycles the electronics will determine the optimum ignition sequence timing.

1. **STOP!** Read the safety information included before proceeding.
2. Turn main valve knob to the **OFF**, full clockwise ↻ position.
3. Place **ON** / **OFF** switch (if equipped) to the **O** (**OFF**) position.
4. Wait a minimum of 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 (see page 2).** If no gas is present, proceed according to the Maxitrol Operating Instructions.

**⚠ WARNING**

**Fire or Explosion Hazard.** Attempted disassembly or repair can cause property damage, severe injury or death. Do not disassemble the control; it contains no serviceable components.

## 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 18, page 10).
   **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 control. 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 TO TURN OFF GAS TO APPLIANCE (see page 10).

ENGLISH

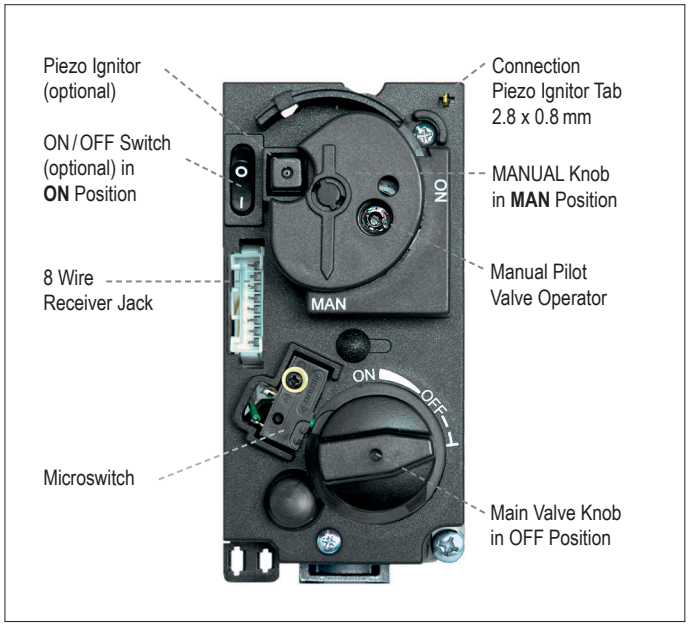


Figure 18: Combination Gas Control: Cover

## 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.

## AUTOMATIC TURN DOWN TO PILOT (MOTOR ENDSTOP)

**3 Hour No Communication Function**
**(handset out of range or empty handset batteries)**

- The control will turn the motor to pilot flame position if there is no communication between handset and receiver for a 3 hour period. The fire will continue to function normally when communication is restored.

**Receiver Overheating**

- The control turns the motor to pilot flame position if the receiver temperature is higher than 176 °F / 80 °C. If batteries are installed in the receiver the temperature must not exceed 131 °F / 55 °C.

**NOTE:** In Manual Mode the main burner can be turned back **ON** after the receiver temperature is below 131 °F / 55 °C (with batteries in receiver) or 176 °F / 80 °C (without batteries in receiver). In Thermostatic Mode, the main burner turns back **ON** automatically.

**1 Hour Turn Down**
(optional; requires specific handset)

- The control will turn to pilot flame if there is no motor movement over a 1 hour period.

**8-Hour No Motor Movement**

- The valve will turn to pilot flame if there is no motor movement for an 8-hour period. To deactivate or activate the 8-hour No Motor Movement turn down, the handset must be synchronized with the receiver and the receiver must be powered ON.

**NOTE:** 8-Hour No Motor Movement turn down is the default setting for the CE-version. It is deactivated by default for the CSA-version. De- and activation is only possible using the B6R display / thermostat handset.

## AUTOMATIC SHUT-OFF

**Countdown Timer**

- At end of Countdown Time period, the fire shuts off completely (pilot and main burner). The Countdown Timer only works in Manual, Thermostatic, and Eco Modes. Maximum Countdown Time is 9 hours and 50 minutes.

**Low Battery Receiver**

- Low receiver battery power will cause the fire to completely shut down (pilot and main burner).

***NOTICE***

Low receiver battery power is indicated by short beeps with each motor movement (0.1 s beep; 0.05 s pause).

**⚠ WARNING**

**FAILURE OF BATTERY OR MAINS POWER TO THE RECEIVER**
If the receiver's power supply is interrupted the Maxitrol Combination Gas Control will not turn off the gas supply to the heating appliance. It will remain in the same gas flow position set prior to the power failure regardless of the room temperature. Once the receiver power is restored, the receiver will return to a normal operating mode. The pilot safety system will continue to function normally during down power occurrences.

It is the OEM's responsibility to follow all gas appliance safety standards and protect the Maxitrol products and components from exceeding maximum/minimum temperature limits (refer to appropriate product literature). The OEM is responsible for the safety of the heating appliance operation.

**On-Demand Pilot**

- CSA: 7 Day Shutoff
  CE, AGA: 5 Day Shutoff

- This green feature eliminates gas energy consumption during extended appliance inactivity. The system automatically shuts off the fire completely (pilot and main burner) when the appliance is inactive (no motor movement) for an extended period of time. This feature helps the consumer realize cost benefits by automatically eliminating energy consumption during non-heating months and limited use.

**2nd Thermocouple Shut-off** (optional)

- The system shuts off the fire completely (pilot and main burner) if the main burner does not completely ignite in approximately 29 seconds after ignition or after pushing the ▲ (up arrow) button.

**NOTE:** There is a 2-minute waiting period before the next ignition. If the thermocouple is still too hot, you will hear a long beep. You will hear a short beep when reignition is possible (2nd thermocouple receivers only).

## SYSTEM OVERRIDE SHUTOFF

**12 Second Shutoff**

- If the fire will not shut off by pressing the ⏻ button, press and hold the ⏻ button for 12 seconds to shut the fire off.

## EXTERNAL OPERATION

Only use third party accessories according to EN 298.
Contact Maxitrol for more information.

## TOUCHPAD / WALL SWITCH

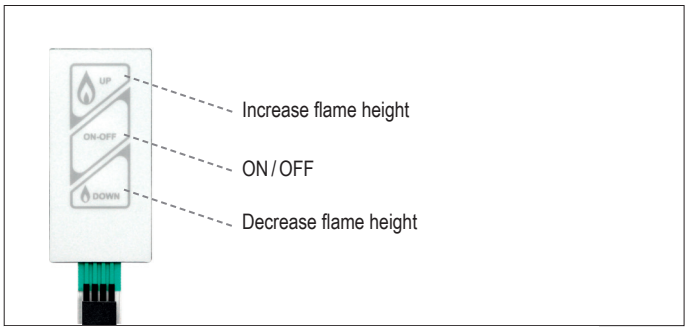


Figure 19: Touchpad / Wall Switch

### TECHNICAL DATA

AMBIENT TEMPERATURE RANGE
CSA: 32 °F to 176 °F
CE, AGA: 0 °C to 80 °C

***NOTICE***

The wall switch must be protected from rain and moisture.

### OPERATION

**To Turn ON Appliance**
- Press **ON-OFF** button (see figure 19) until two short beeps (CE, AGA version) or continuous beeping (CSA version) confirm the start sequence has begun; release button.
- 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 “TO TURN OFF GAS TO APPLIANCE” (see page 10).

**Flame Height Adjustment**
- Press and hold (large flame) button to increase flame height.
- Press and hold (small flame) button to decrease flame height or to set appliance to pilot flame.

**Standby Mode (Pilot Flame)**
- Press and hold (small flame) button to set appliance to pilot flame.

**To Turn OFF Appliance**
- Press **ON-OFF** button.

**⚠ WARNING**

If the appliance will not operate, follow the instructions “TO TURN OFF GAS TO APPLIANCE” (see page 10).

**2nd Burner / AUX**
- Simultaneously press the **ON-OFF** and (small flame) buttons to switch the decorative burner **OFF**.
- Simultaneously press **ON-OFF** and (large flame) buttons to switch decorative burner **ON**.

**NOTE:** The latching solenoid valve cannot operate manually. If the receiver battery runs down it will remain in the last operating position.

## SWITCH PANEL

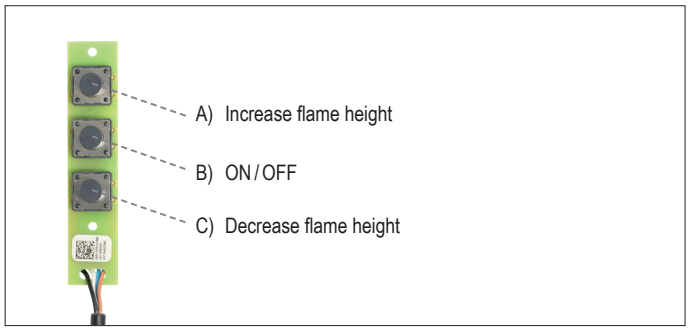


Figure 20: Switch Panel

### TECHNICAL DATA

AMBIENT TEMPERATURE RANGE
CSA: 32 °F to 221 °F
CE, AGA: 0 °C to 105 °C

### OPERATION

**To Turn ON Appliance**
- Press “B” button (see figure 20) until two short beeps (CE, AGA version) or continuous beeping (CSA version) confirm the start sequence has begun; release button.
- 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 “TO TURN OFF GAS TO APPLIANCE” (see page 10).

**Flame Height Adjustment**
- Press and hold “**A**” button to increase flame height.
- Press and hold “**C**” button to decrease flame height or to set appliance to pilot flame.

**Standby Mode (Pilot Flame)**
- Press and hold “**C**” button to set appliance to pilot flame.

**To Turn OFF Appliance**
- Press “**B**” button.

**⚠ WARNING**

If the appliance will not operate, follow the instructions “TO TURN OFF GAS TO APPLIANCE” (see page 10).

**2nd Burner / AUX**
- Simultaneously press the “**B**” and “**C**” buttons to switch the decorative burner **OFF**.
- Simultaneously press “**B**” and “**A**” buttons to switch decorative burner **ON**.

**NOTE:** The latching solenoid valve cannot operate manually. If the receiver battery runs down it will remain in the last operating position.

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# SYMAX HANDSET

## TECHNICAL DATA

AMBIENT TEMPERATURE RANGE
CSA: 32 °F to 131 °F
CE, AGA: 0 °C to 55 °C

RADIO FREQUENCY
CSA: 918.0 MHz for U.S. (FCC), Canada (ISED), (handset, receiver)
CE: 868.1 MHz for Europe (handset, receiver)
AGA: 918.0 MHz for New Zealand (RNZ) and Australia (ACMA) (handset, receiver)

(see general radio frequency information on page 4.)

POWER SUPPLY
2x AAA batteries, 1.5 V (quality alkaline recommended)

***NOTICE***

- Wiring of control and receiver must be completed before starting ignition. Failure to do so could damage the electronics.
- The handsets and receivers are not interchangeable with previous electronics G6R and B6R-R8(9)U(T).

**⚠ WARNING**

To avoid damaging the electronics, do NOT use metal tools to remove the batteries from the handset / receiver.

- 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.

## SYNCHRONIZATION RECEIVER / SYMAX HANDSET

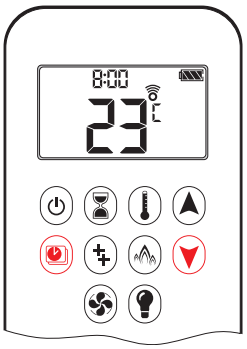
***NOTICE***

See page 7 for more information about synchronization between receiver and Symax handset.

## GENERAL NOTES

**Batteries – Handset**
Low battery indicator on Symax.

**Handset One Button and Two Button Ignition**
Change from one button (default setting) to two button ignition or vice versa by pressing and holding ⏻ button for 10 sec. immediately after installing batteries. **ON** is displayed and **1** or **2** (One or Two Button Ignition) is flashing. When change is complete **1** changes to **2** or vice versa.




- Temperature and timer settings are stored permanently and not deleted when the battery is replaced. A reset to the default values occurs when the Programmer ⏻ and Down ▼ button are pressed simultaneously for 8 seconds.

## FUNCTION ACTIVATION / DEACTIVATION

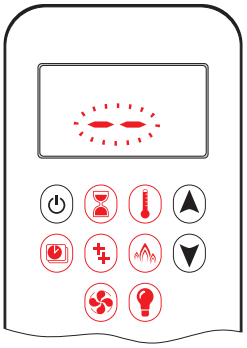
**Deactivate Functions**
1. Install batteries. All icons are displayed and flashing.
2. While the icons are flashing, press the relevant function button and hold for 10 sec.
3. The function icon will flash until deactivation is complete. Deactivation is complete when the function icon and two horizontal bars "– –" are displayed.

**NOTE:** If a deactivated button is pressed, there is no function, and two horizontal bars "– –" are displayed.

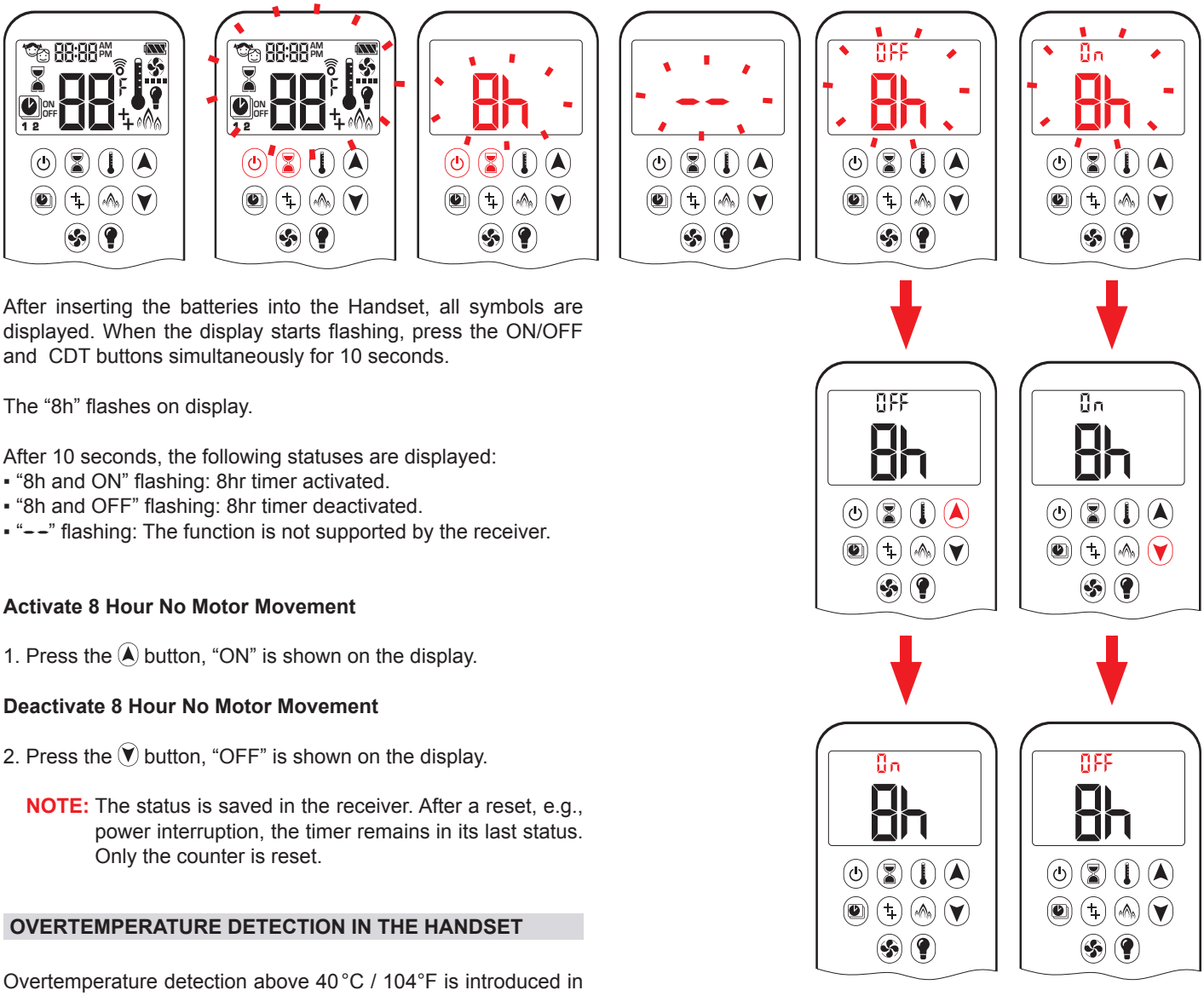
**NOTE:** Deactivation remains in effect after change of batteries.

**Activate Functions**
1. Install batteries. All icons are displayed and flashing.
2. To activate a function, press the relevant button and hold for 10 sec.
3. The function icon will continue to flash until activation is complete. Activation is complete when the function icon is displayed.

**The following Functions can be Deactivated / Activated**
- CHILD PROOF
- PROGRAM MODE
- THERMOSTATIC MODE (also deactivates PROGRAM MODE)
- ECO MODE
- LIGHT / DIMMER OPERATION
- CIRCULATING FAN OPERATION
- 2ND BURNER FUNCTION
- COUNTDOWN TIMER
- 8h NO MOTOR MOVEMENT



## DEACTIVATING AND ACTIVATING THE 8H TIMER




After inserting the batteries into the Handset, all symbols are displayed. When the display starts flashing, press the ON/OFF and CDT buttons simultaneously for 10 seconds.

The “8h” flashes on display.

After 10 seconds, the following statuses are displayed:
- “8h and ON” flashing: 8hr timer activated.
- “8h and OFF” flashing: 8hr timer deactivated.
- “– –” flashing: The function is not supported by the receiver.

**Activate 8 Hour No Motor Movement**

1. Press the ▲ button, “ON” is shown on the display.

**Deactivate 8 Hour No Motor Movement**

2. Press the ▼ button, “OFF” is shown on the display.

**NOTE:** The status is saved in the receiver. After a reset, e.g., power interruption, the timer remains in its last status. Only the counter is reset.

## OVERTEMPERATURE DETECTION IN THE HANDSET

Overtemperature detection above 40 °C / 104°F is introduced in the Handset.

Once the temperature is exceeded, the motor turns to the pilot gas end position.

“TMP” and “HI” flash on the transmitter display for 4 seconds, after which the message remains until confirmed with any button.

ENGLISH

## 8 AND 10-BUTTON HANDSET OPERATION

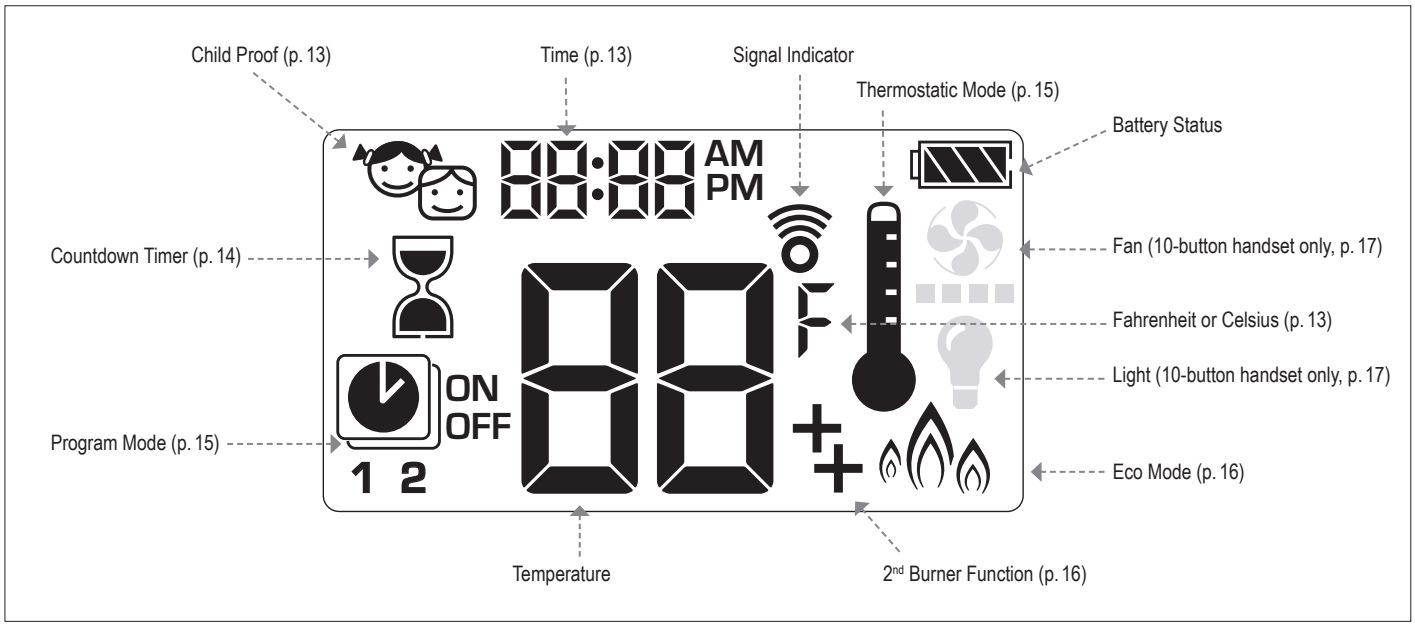
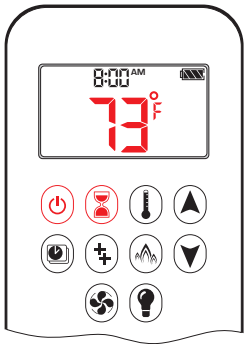



Figure 21: Symax Handset Display

### SETTING FAHRENHEIT OR CELSIUS



- To change between °C and °F, press ⏻ and ⌛ buttons simultaneously.

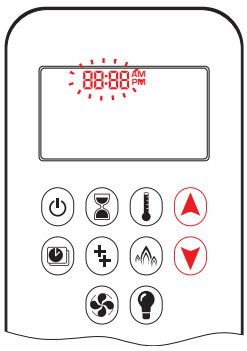
**NOTE:** Choosing °F results in a 12 hour clock. Choosing °C results in a 24 hour clock.

### CHILD PROOF

**ON**:
- To activate press ⏻ and ▼ buttons simultaneously.
- 🔒 is displayed and the Symax is rendered inoperable, except for the **OFF** function.

**OFF**:
- To deactivate press ⏻ and ▼ buttons simultaneously.
- 🔒 disappears.

### SETTING THE TIME



1. Press ▲ and ▼ buttons simultaneously. **Day** flashes.
2. Press ▲ or ▼ button to select a number to correspond with the day of the week (e.g. 1=Monday, 2=Tuesday, 3=Wednesday, 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday).
3. Press ▲ and ▼ buttons simultaneously. **Hour** flashes.
4. To select hour press ▲ or ▼ button.
5. Press ▲ and ▼ buttons simultaneously. **Minutes** flash.
6. To select minutes press ▲ or ▼ button.
7. To confirm press ▲ and ▼ buttons simultaneously or wait.

## MANUAL MODE (HANDSET)

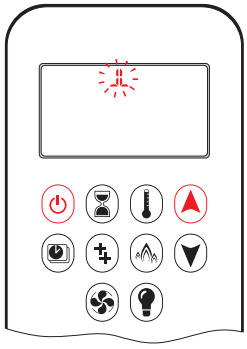
*NOTICE*

BEFORE OPERATING
1. Make sure MANUAL knob on the GV60 control is in the **ON**, full counterclockwise ↺ position.
2. Place the **ON**/**OFF** switch (if equipped) in the **I** (**ON**) position.

### TO TURN ON FIRE

**⚠ WARNING**

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



- Press ⏻ button (One Button Ignition) or ⏻ and ▲ button simultaneously (Two Button Ignition) until two short beeps (CE, AGA version) or continuous beeping (CSA version) and a blinking series of lines confirms the start sequence has begun; release button(s).
- Main gas flows once pilot ignition is confirmed.
- The Symax automatically goes into Manual Mode after main burner ignition.

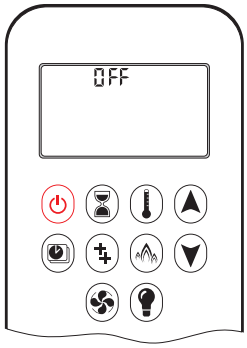
**⚠ WARNING**

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” (see page 10).

### STANDBY MODE (PILOT FLAME)

**Handset**
- Press and hold ▼ button to set appliance to pilot flame.

### TO TURN OFF FIRE



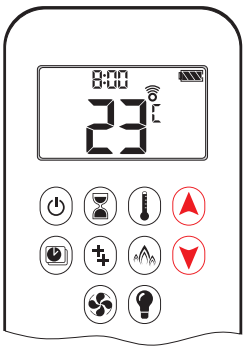

**Handset**
- Press ⏻ button to turn off. (the handset must be in **ON** mode).

**NOTE:** A new ignition is possible after the **OFF** icon stops flashing.

### SYSTEM OVERRIDE SHUTOFF

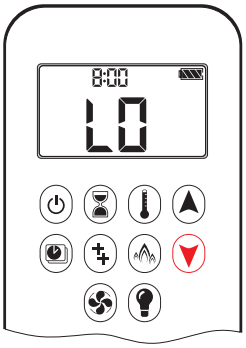
**Handset**
- If the fire will not Shutoff by pressing the ⏻ button, press and hold the ⏻ button for 12 seconds to shut the fire off.

### FLAME HEIGHT ADJUSTMENT



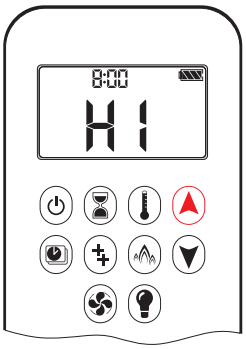

**Handset**
- To increase flame height press and hold ▲ button.
- To decrease flame height or to set appliance to pilot flame, press and hold ▼ button.

## DESIGNATED LOW FIRE AND HIGH FIRE




- To go to low fire, double-click ▼ button.
- LO is displayed.

**NOTE:** Flame goes to high fire first before going to low fire.

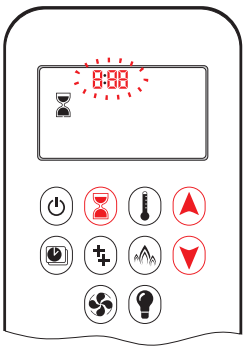



- To go to high fire, double-click ▲ button.
- HI is displayed.

**⚠ WARNING**

If the appliance will not operate, follow the instructions “TURN OFF GAS TO APPLIANCE” (see page 10).

## COUNTDOWN TIMER



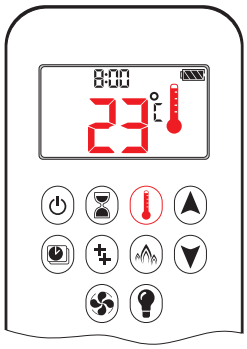

**ON/SETTING:**
1. Press and hold ⏳ button until ⏳ is displayed, and **hour** flashes.
2. To select hour press ▲ or ▼ button.
3. To confirm press ⏳ button. **Minutes** flash.
4. To select minutes press ▲ or ▼ button.
5. To confirm press ⏳ button or wait.

**OFF**:
- Press ⏳ button.
- ⏳ and Countdown Time disappear.

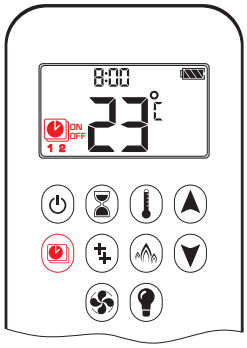
**NOTE:** At end of Countdown Time period, the fire shuts off. The Countdown Timer only works in Manual, Thermostatic, and Eco Modes. Maximum Countdown Time is 9 hours and 50 minutes.

ENGLISH

## MODES OF OPERATION



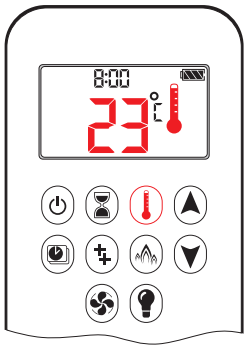
**Thermostatic Mode**
The room temperature is measured and compared to the set temperature. The flame height is then automatically adjusted to achieve the set temperature.



**Program Mode**
PROGRAM 1 and 2, each can be programmed to go **ON** and **OFF** at specific times at a set temperature.

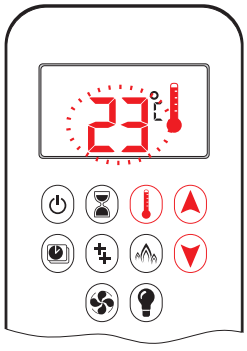
**Eco Mode**
Flame height modulates between high and low. If the room temperature is lower than the set temperature, the flame height stays on high for a longer period of time. If the room temperature is higher than the set temperature, the flame height stays on low for a longer period of time. One cycle lasts approx. 20 min.

## THERMOSTATIC MODE



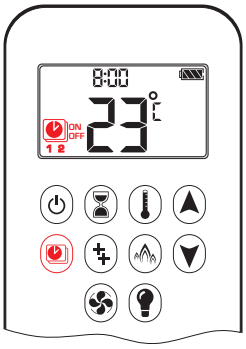
**ON**:
- Press button.
- is displayed, preset temperature is displayed briefly, and then room temperature is displayed.

**OFF**:
1. Press button.
2. Press or button to enter Manual Mode.
3. Press button to enter Program Mode.
4. Press button to enter Eco Mode.



**SETTING:**
1. Press button and hold until is displayed, temperature flashes.
2. To adjust set temperature press or button.
3. To confirm press button or wait.

## PROGRAM MODE



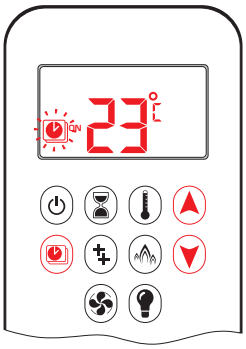
The setting process can be canceled at any time by pressing the button. However, settings made so far will be saved.

**ON**:
- Press button.
- , **1** or **2**, **ON** or **OFF** is displayed.

**OFF**:
1. Press button.
2. Press or button to enter Manual Mode.
3. Press button to enter Thermostatic Mode.
4. Press button to enter Eco Mode.

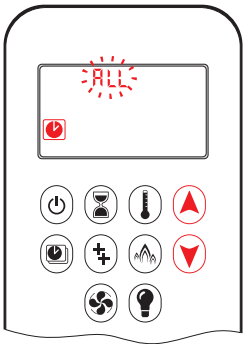
**NOTE:** The set temperature for Thermostatic Mode is the temperature for the **ON** time in Program Mode. Changing the Thermostatic Mode set temperature also changes the **ON** time temperature in Program Mode.

**Default settings:**
**ON** TIME (Thermostatic) TEMPERATURE: 70 °F / 21 °C
**OFF** TIME TEMPERATURE: "--" 41 °F / 5 °C (pilot flame only)



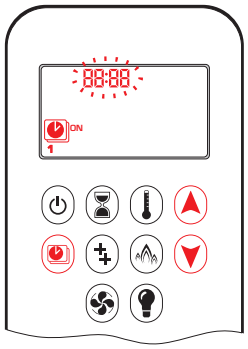
**TEMPERATURE SETTING:**
1. Press button and hold until flashes. **ON** and set temperature (setting in Thermostatic Mode) is displayed.
2. To continue press button or wait for 8 seconds. , **OFF** is displayed, temperature flashes.
3. Select **OFF** temperature by pressing the or button.
4. To confirm press button.

**NOTE:** The **ON** (Thermostatic) and **OFF** set temperatures are the same for each day.



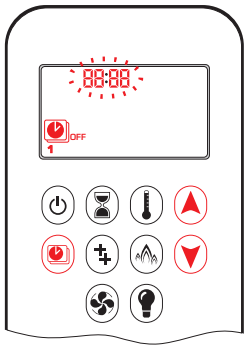
**DAY SETTING:**
5. ALL flashes. Press or button to choose between ALL, SA-SU, 1, 2, 3, 4, 5, 6, 7.
6. To confirm press button.

**ALL selected**



**ON TIME SETTING (PROGRAM 1):**

7. , **1**, **ON** is displayed, ALL is displayed shortly, and **hour** flashes.
8. To select hour press ▲ or ▼ button.
9. To confirm press button. , **1**, **ON** is displayed, ALL displayed shortly, and **minutes** flash.
10. To select minutes press ▲ or ▼ button.
11. To confirm press button.



**OFF TIME SETTING (PROGRAM 1):**

12. , **1**, **OFF** is displayed, ALL is displayed shortly, and **hour** flashes.
13. To select hour, press ▲ or ▼ button.
14. To confirm press button. , **1**, **OFF** is displayed, ALL is displayed shortly, and **minutes** flash.
15. To select minutes press ▲ or ▼ button.
16. To confirm press button.

**NOTE:** Either continue to PROGRAM 2 and set **ON** and **OFF** times or stop programming at this point, and PROGRAM 2 remains deactivated.

**NOTE:** PROGRAM 1 and 2 use the same **ON** (Thermostatic) and **OFF** temperatures for ALL, SA-SU and Daily Timer (1, 2, 3, 4, 5, 6, 7). Once a new **ON** (Thermostatic) and/or **OFF** temperature has been set, that temperature becomes the new default setting.

**NOTE:** If ALL, SA-SU or Daily Timer are programmed for PROGRAM 1 and PROGRAM 2 **ON** and **OFF** times, these become the new default times. The batteries must be removed to clear the PROGRAM 1 and PROGRAM 2 **ON** and **OFF** times and temperatures.

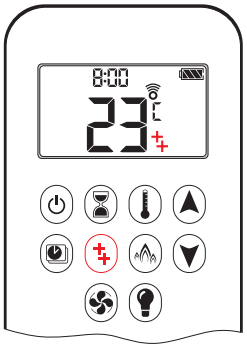
**SA-SU or Daily Timer (1, 2, 3, 4, 5, 6, 7) selected**

- Set **ON** time and **OFF** time using same procedure as **"ALL selected"** (above).
- SA-SU: Set **ON** time and **OFF** time for both Saturday and Sunday.
- Daily Timer: Unique **ON** and **OFF** times may be set for a single day of the week, for multiple days of the week, or for every day of the week.
- Wait for 8 seconds or press the ⏻ button to finish setting.

## 2ND BURNER FUNCTION

The latching solenoid valve will open automatically after ignition or after switching the system **OFF**, so that the maximum flow of gas is supplied to both burners assisting with the ignition process. After pressing the button for the 2nd Burner the motor will turn 15 seconds in the **ON** direction until the max. position is reached.

A latching solenoid with reverse polarity and reverse operation is available as an option. Contact Maxitrol for more information.

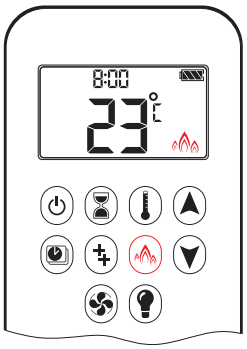


**ON**:
- To switch a burner **ON**, press the button.
- displayed.

**OFF**:
- To switch the burner **OFF**, press the button.
- disappears.

**NOTE:** The latching solenoid valve cannot operate manually. If the receiver battery runs down it will remain in the last operating position.

## ECO MODE



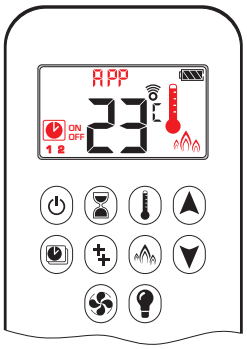
**ON**:
- Press button to enter Eco Mode.
- is displayed.

**OFF**:
1. Press button.
2. Press ▲ or ▼ button to enter Manual Mode.
3. Press button to enter Thermostatic Mode.
4. Press button to enter Program Mode.

## MYFIRE APP

***NOTICE***

Before the App can be used, the myfire Wi-Fi Box must be wired and plugged into mains power according to myfire App setup diagram (see figure 34, page 28), and the App setup must be completed (see myfire App setup, page 21).



If Thermostatic, Program or Eco Mode is activated in the App, the corresponding icon and "APP" is displayed on the handset.

The modes can be operated according to the descriptions on previous pages.

**NOTE:** In Manual Mode "APP" is NOT displayed on the handset.

ENGLISH

## 10-BUTTON HANDSET OPERATION ONLY

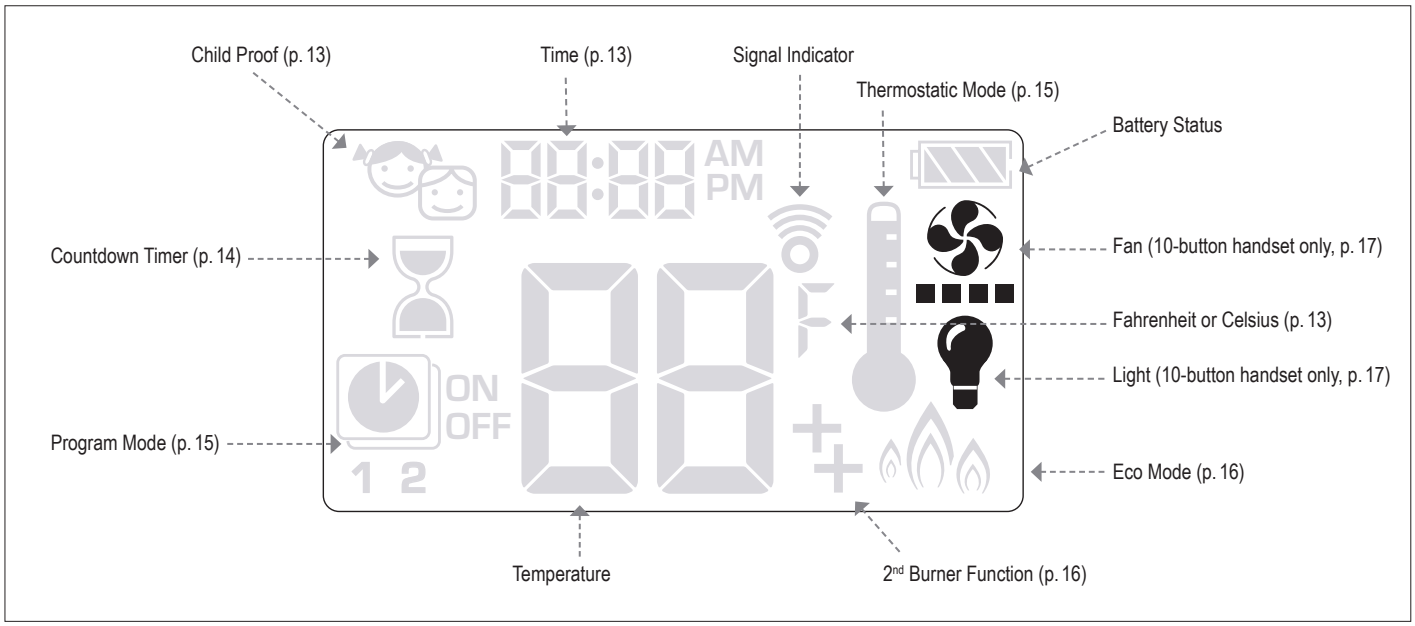
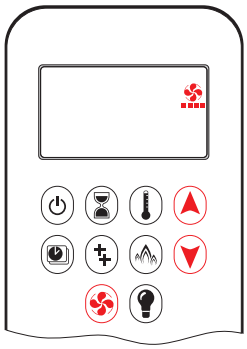



Figure 22: Symax Handset Display

### CIRCULATING FAN OPERATION



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

**ON / SETTING:**

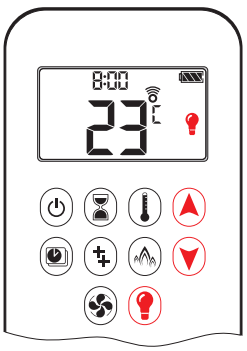
1. Press button and hold until flashes.
2. Press button to increase fan speed and button to decrease fan speed.
3. To confirm setting either press button or wait ( displayed).

**OFF**:

▪Press button until all 4 speed level bars disappear.

**NOTE:** SETTING only. If the fan was not switched **OFF** after last use, it starts automatically 4 minutes after ignition at maximum speed and goes to the last set level after 10 seconds. The fan stops 10 minutes after the gas is **OFF** or at pilot.

### LIGHT / DIMMER OPERATION



**ON**:

- Press button ( is displayed).
- Light is **ON** at preset level.

**OFF**:

- Press button ( disappears).

**SETTING:**

1. Press button and hold until flashes.
2. To adjust light between 20…100 % press or button.
3. To confirm setting either press button or wait ( is displayed).

**NOTE:** The Light works independently of the pilot flame. If you want the light **ON** but no flame, press button.

# MYFIRE PUCK HANDSET

## TECHNICAL DATA

AMBIENT TEMPERATURE RANGE
CSA: 32 °F to 131 °F
CE, AGA: 0 °C to 55 °C

RADIO FREQUENCY
CSA: 918.0 MHz for U.S. (FCC), Canada (ISED), (myfire Puck™, receiver)
CE: 868.1 MHz for Europe (myfire Puck™, receiver)
AGA: 918.0 MHz for New Zealand (RNZ) and Australia (ACMA) (handset, receiver)
(see radio frequency information on page 4.)

POWER SUPPLY
Handset: 2x AAA; 1.5 V (quality alkaline recommended)

***NOTICE***

- Wiring of control and receiver must be completed before starting ignition. Failure to do so could damage the electronics.
- The handsets and receivers are not interchangeable with previous electronics G6R and B6R-R8(9)U(T).

**⚠ WARNING**

To avoid damaging the electronics, do NOT use metal tools to remove the batteries from the handset / receiver.

- 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.

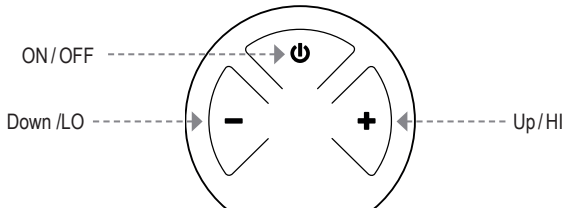



Figure 23: myfire Puck buttons

## SYNCHRONIZATION RECEIVER / MYFIRE PUCK™ HANDSET

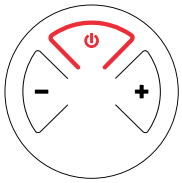
***NOTICE***

See page 7 for more information about synchronization between receiver and myfire Puck™.

## MODES OF OPERATION

**⚠ WARNING**

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

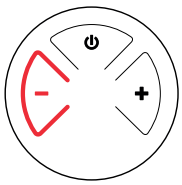



### TURN FIRE ON AND OFF

- Press and hold the ⏻ button until two short beeps confirms the start sequence has begun; release button.
- Main gas flows once pilot ignition is confirmed.
- Press and hold the ⏻ button to turn **OFF**.

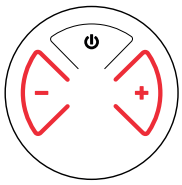
**⚠ WARNING**

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” (see page 10).



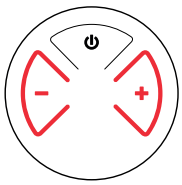

### STANDBY MODE (PILOT FLAME)

- Press and hold the “**–**” button to set appliance to pilot flame




### FLAME HEIGHT ADJUSTMENT

- To increase flame height press and hold “**+**” button.
- To decrease flame height or to set appliance to pilot flame, press and hold “**–**” button.




### DESIGNATED LOW FIRE AND HIGH FIRE

- To go to hi fire, double-click “**+**” button.
- To go to low fire, double-click “**–**” button.

**NOTE:** Flame goes to high fire first before going to low fire.


### 2ND BURNER FUNCTION

- **ON:** Press ⏻ and “**+**” button.
- **OFF:** Press ⏻ and “**–**” button.

The latching solenoid valve will open automatically after ignition or after switching the system off. The maximum flow of gas is supplied to both burners assisting with the ignition process. After pressing the buttons for the 2nd Burner function, the motor will turn in the ON direction until the max. position is reached.

A latching solenoid with reverse polarity and reverse operation is available as an option. Contact Maxitrol for more information.

**NOTE:** The latching solenoid valve cannot operate manually. If the receiver battery runs down it will remain in the last operating position. This does not affect the safety of the product.

**⚠ WARNING**

If the appliance will not operate, follow the instructions “TURN OFF GAS TO APPLIANCE” (see page 10).

ENGLISH

# MYFIRE WI-FI BOX

The following information concerns the latest generation Wi-Fi Box type B6R-W3.

## TECHNICAL DATA

AMBIENT TEMPERATURE RANGE
32 °F to 176 °F / 0 °C to 80 °C

RADIO FREQUENCY
2.4 GHz (see radio frequency information on page 4.)

POWER SUPPLY
6 V DC powered by the receiver

WIRELESS COMMUNICATION
- WPA2 authentication
- AES 256-bit encryption security
- Compatible with IEEE 802.11 b/g/n
- Bluetooth LE v5.0 Class 1

LED RGB CONTROL OUTPUT
Phoenix, 3 pol, MC 1.5/3-ST-3.5, 5 V DC - 24 V DC / 5A

LED RGB EXTERNAL POWER INPUT
Phoenix, 2 pol, MC 1.5/2-ST-3.5, 5 V DC - 24 V DC / 5A

APPROVALS / SDOC
Europe (CE), U.S. (FCC), Canada (ISED), New Zealand (RNZ), Australia (ACMA), AGA

## MODES OF OPERATION

The myfire Wi-Fi Box communicates with a home network (Wi-Fi Router) over a wireless signal. For initial setup make sure Bluetooth and Wi-Fi are turned ON in Settings of your smart device.

1. The myfire Wi-Fi Box must be wired to the receiver according to the myfire App setup diagram (see figure 34, page 28).
2. Connect receiver to mains power. The myfire Wi-Fi Box start with the Access Point Mode (green/blue LED blinking). Go to “myfire App setup” (see page 21).

MINIMUM REQUIREMENT FOR WI-FI ROUTER
- IEEE 802.11n/g/b compatibility
- WPA2 encryption
- Radio frequency: 2.4 GHz band
- Wireless auto channel: Automated search for WLAN radio channel free of interference

MINIMUM REQUIREMENT SMART DEVICE:
- iOS 15.0 or Android 10.0

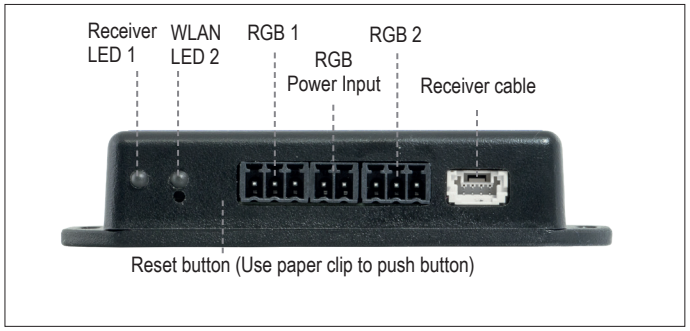



Figure 24: myfire Wi-Fi Box (B6R-W3…)

**⚠ WARNING**

Do not connect the combination gas control to the LED ports of the myfire Wi-Fi box.

LED INDICATION ON MYFIRE WI-FI BOX (see figure 24)
2 RGB LEDs:

| Label | LED | Status |
|---|---|---|
| Receiver LED 1 | Green | Connected to receiver. |
| | Red | No data transfer between receiver and Wi-Fi Box. |
| | Off | Standby mode is active or no Power supply. |
| WLAN LED 2 | Green | Wi-Fi connection is safe. |
| | Blue/Green blinking | Access point mode (AP mode) is active. |
| | Red | Connection to home network (Wi-Fi Router) failed. |
| | Off | Standby mode is active or no power supply. |

RESET STATUS ON MYFIRE WI-FI BOX:

| Press Reset Button | LED | Function |
|---|---|---|
| Power-On-Reset or 1-sec-Reset | WLAN LED 2 flashes red, green and blue | If no network is set, the AP Mode will be activated for 2 hours. When the network isn't set after 2 hours, the Wi-Fi Box will go to Standby Mode. Once a network is set, the Wi-Fi Box will connect directly. |
| 7 secs | RECEIVER LED 1 flashes every 500 ms in blue | Removes the Wi-Fi settings and turns on the Access point mode (AP mode) for 2 hours. |
| 20 secs | RECEIVER LED 1 flashes every 50 ms in blue | Erases all Setup Data including Wi-Fi settings. The AP-Mode will be activated for 2 hours. |

***NOTICE***

- A Symax handset or myfire Puck™ must be used to achieve full functionality.
- If mains power is lost, disconnect the myfire Wi-Fi Box from the receiver. This will prevent receiver batteries from being drained quickly.
- If no network is configured, the myfire Wi-Fi Box will leave the Access Point Mode (AP Mode) after 2 hours.
- If you have multiple fireplaces using myfire Wi-Fi Boxes, the minimum distance between the myfire Wi-Fi Boxes must be 60 cm (2'). A shorter distance may interfere with the data transfer.

To reset the myfire Wi-Fi Box, press and hold the reset button for 7 seconds. This is required after replacing the Router or if the Router password was entered incorrectly.

# RGB LEDs AND LED DRIVER FOR MYFIRE WI-FI BOX (B6R-W3…)

## TECHNICAL DATA

RGB LED WORKING VOLTAGE RANGE
5 - 24 V DC

SUPPORTED RGB LED COUNT PER RGB-CHANNEL
300

MAXIMUM CABLE LENGTH WI-FI BOX TO LED-STRIPE
2 meters

LED outputs support the requirements of WORLDSEMI WS28xx RGB controller family.

## REQUIREMENTS FOR EXTERNAL LED DRIVER

The LED Driver has to be selected according the voltage and required current consumption of the RGB-LEDs. There are two different possibilities to connect them:

**Direct connection via Wi-Fi Box (≤ 5 A):**
- 5 - 24 V DC / max. 5A on LED RGB external power input
- The power has to be connected to the LED RGB external power input of the Wi-Fi Box. (see figure 25)

**Indirect connection (>5A)**
- 5 - 24 V DC direct from the LED driver to the LEDs
- Connection of data output (DO) and ground (GND) from the LED RGB control output of the Wi-Fi Box to the RGB LEDs (see figure 26).

**NOTICE**

- There is no standard for RGB LED controller. Therefore, the RGB LEDs or RGB LED-stripes have to be tested for functionality. The color sequence can be different from the RGB, e.g. GRB. The sequence can be adjusted in the myfire App.
- The Wi-Fi Box is designed in compliance with all requirements of the EMC-directive 2014/30/EU and FCC/ISED requirements. Third party devices and the wiring can change the electromagnetic compatibility behavior. It is the OEM's responsibility to have the appliance approved in compliance with all required standards and laws.
- Electrical wiring must be designed in compliance with the power consumption and supplier recommendation of RGB-LED's. At a minimum of 24 V DC/5A a cross section of 0.5 mm²/AWG 20 is recommended, for data wires flexible wires are recommended. All wires should have UL conformity and temperature rating accordingly.
- The third-party LED installation, including LED drivers, cabling and RGB LEDs must be isolated from the metal parts of the gas appliance and the fireplace. Otherwise the electronics may malfunction.

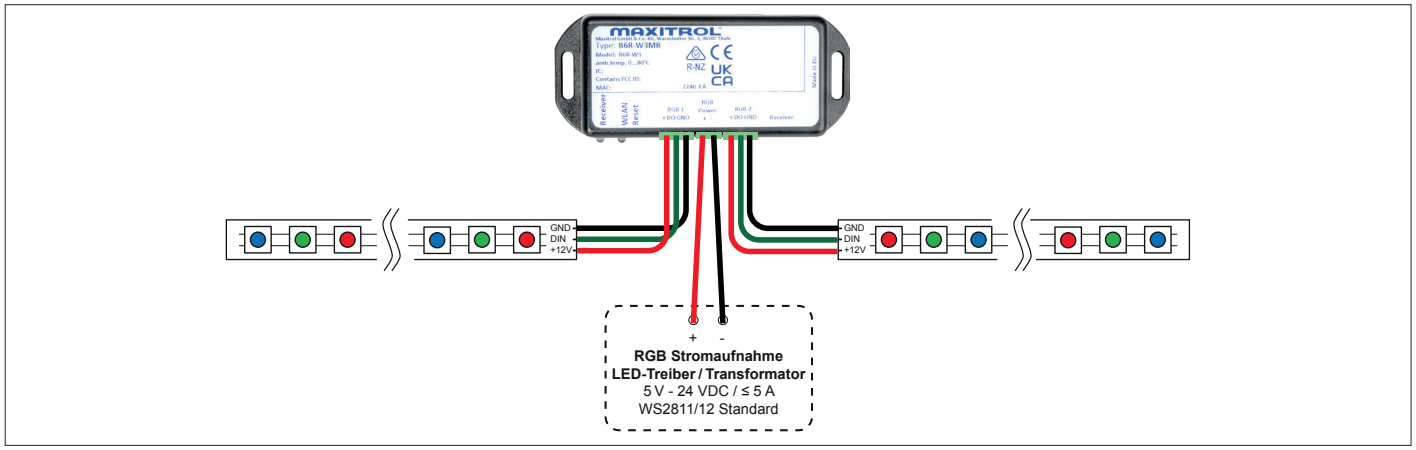



Figure 25: LED setup 1 (Direct connection)

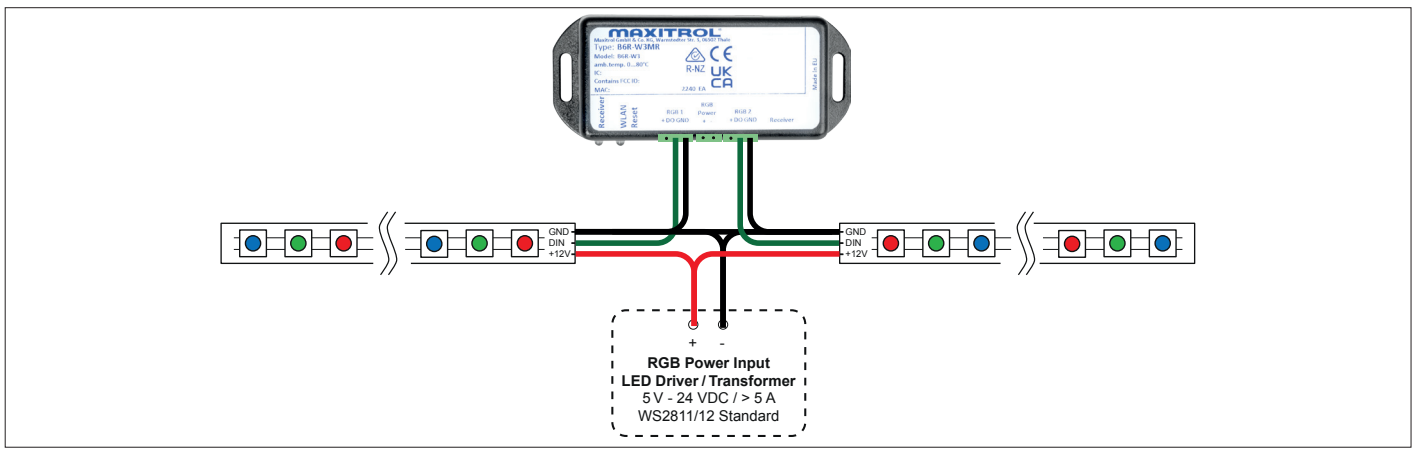



Figure 26: LED setup 2 (Indirect connection)

## MYFIRE APP SETUP

***NOTICE***

Please refer to the separate document: **myfire - Initial App Setup** at www.myfireapp.com.

This document contains all current information regarding:
- App installation
- Registration and login
- Wi-Fi and Bluetooth connection
- App operation and synchronization

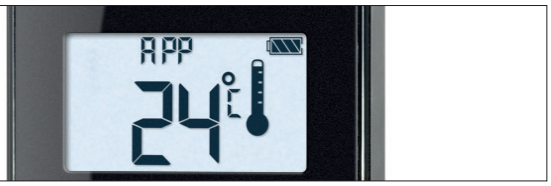


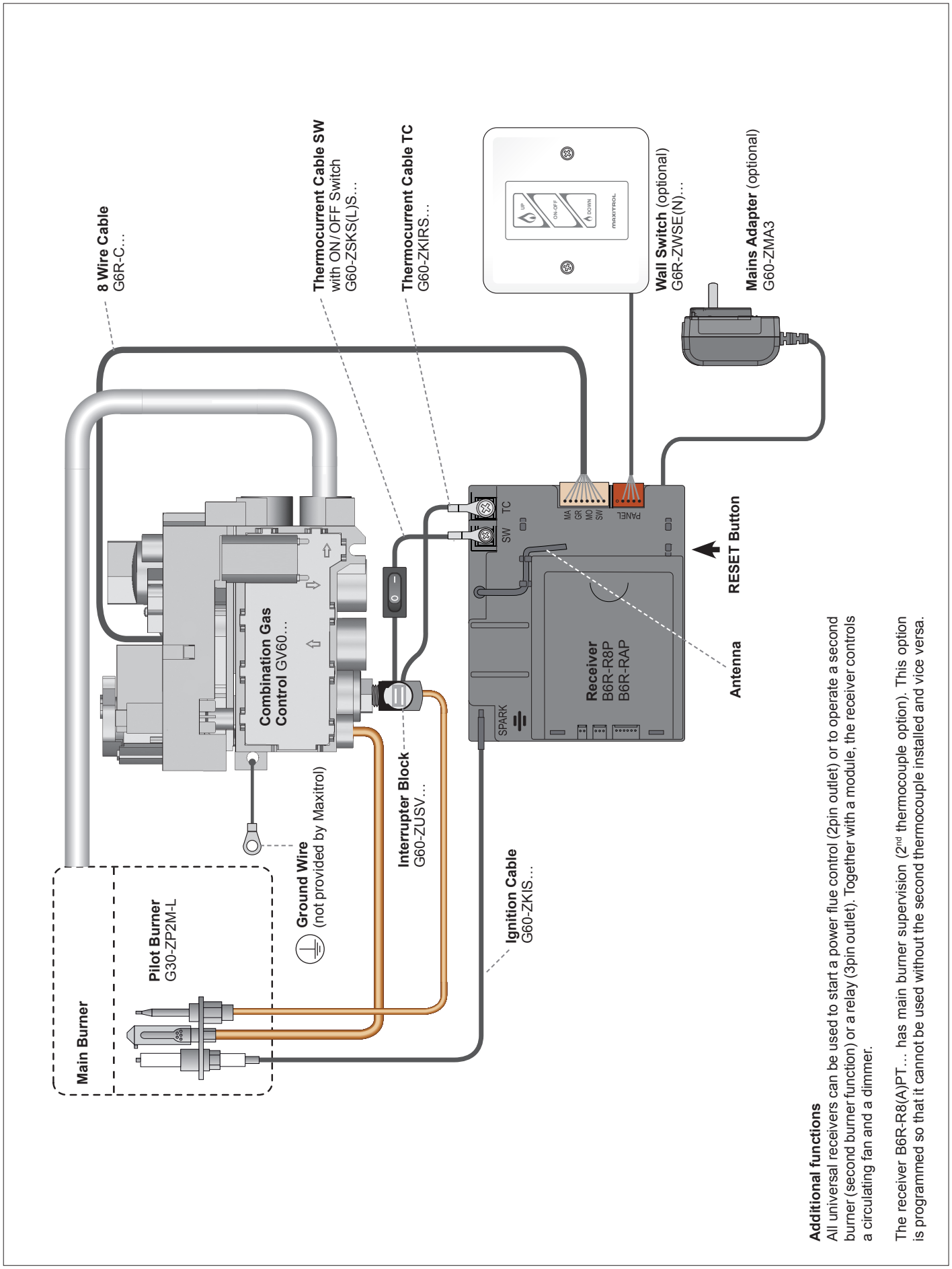

Figure 27: App connected (in Thermostatic Mode)

***NOTICE***

It is the responsibility of the OEM to consider the following:
- The location of the GV60 system components will significantly effect the radio signal strength.
- The type of materials (e.g. sheet metal) used in the construction of the gas fireplace will significantly effect the radio signal strength.
- Operate the system with a dedicated mains power supply and/or batteries.
- Do not use near household electrical wiring and/or magnetic fields.
- Other transmitters using the same signal will negatively affect the radio signal strength.
- Adjustment of the wired antenna on the receiver can improve signal strength.
- Do not store or locate the GV60 system components in a hot, cold, or humid environment.

# WIRING DIAGRAMS

## BASIC




**Additional functions**
All universal receivers can be used to start a power flue control (2pin outlet) or to operate a second burner (second burner function) or a relay (3pin outlet). Together with a module, the receiver controls a circulating fan and a dimmer.

The receiver B6R-R8(A)PT... has main burner supervision (2nd thermocouple option). This option is programmed so that it cannot be used without the second thermocouple installed and vice versa.

Figure 28

ENGLISH

## BASIC – WITH LATCHING SOLENOID (MODULATING)

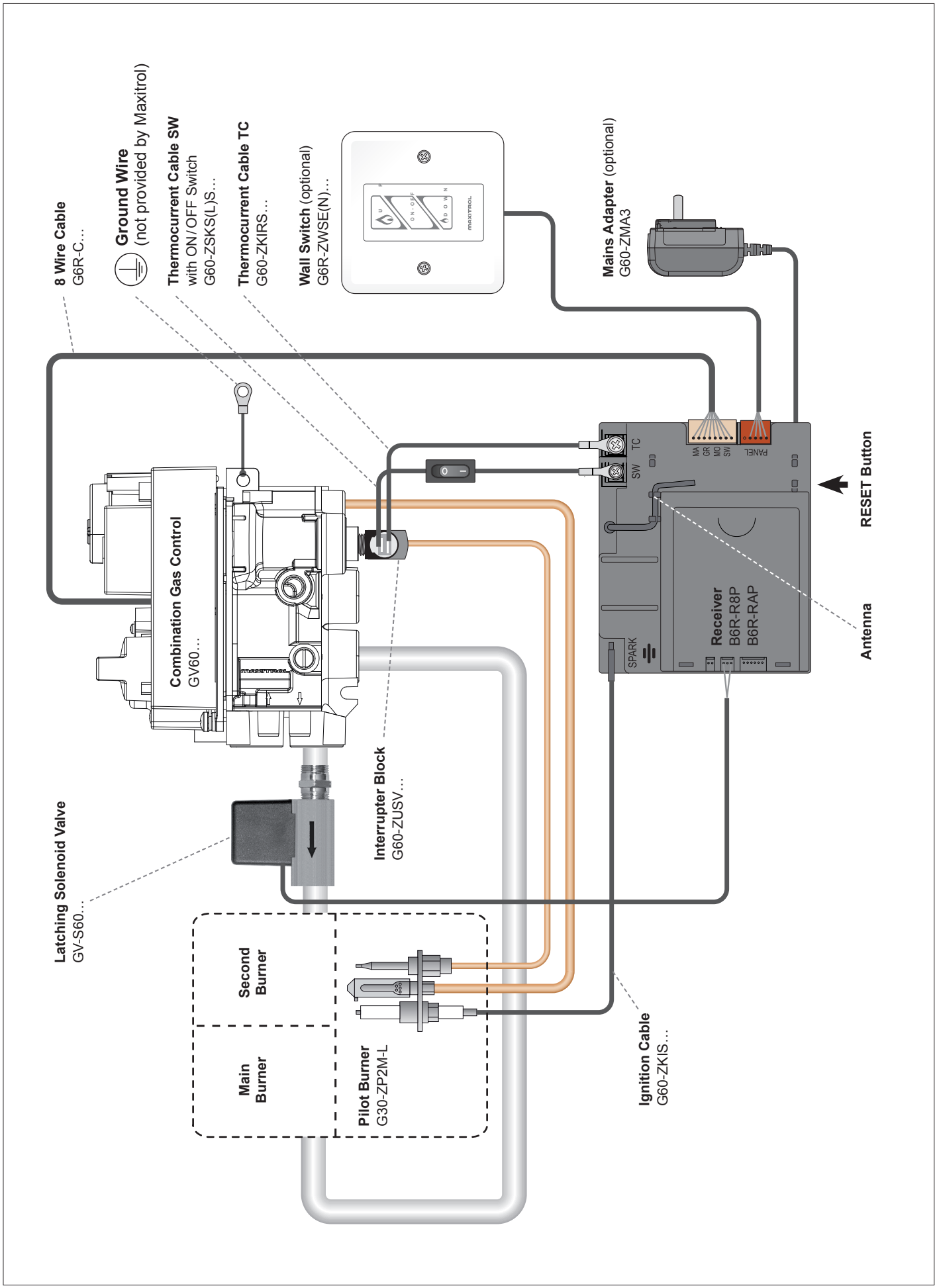



Figure 29

## BASIC – WITH LATCHING SOLENOID (NON MODULATING)

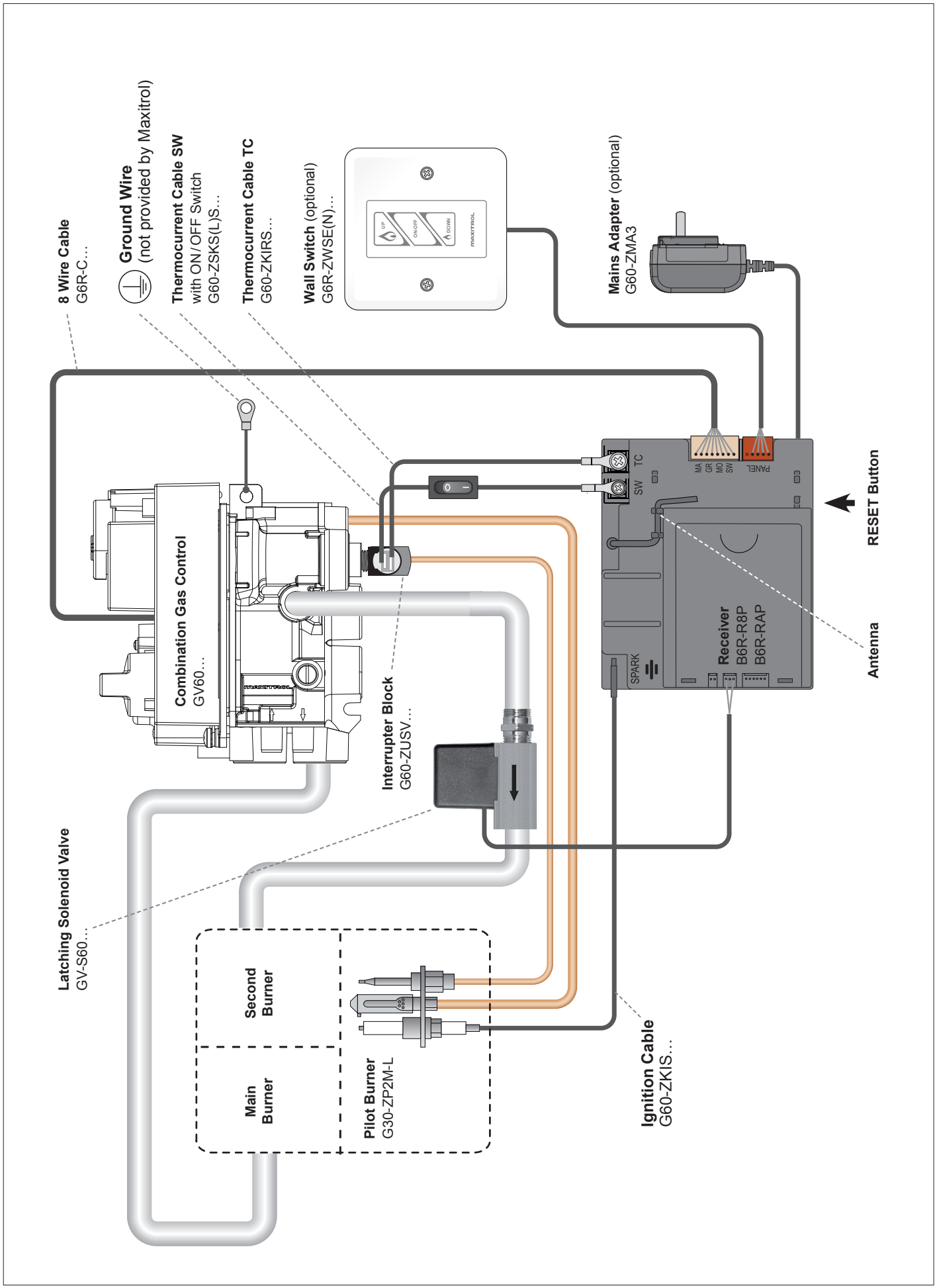



Figure 30

ENGLISH

## FAN, LIGHT / DIMMER, 2ND BURNER FUNCTION

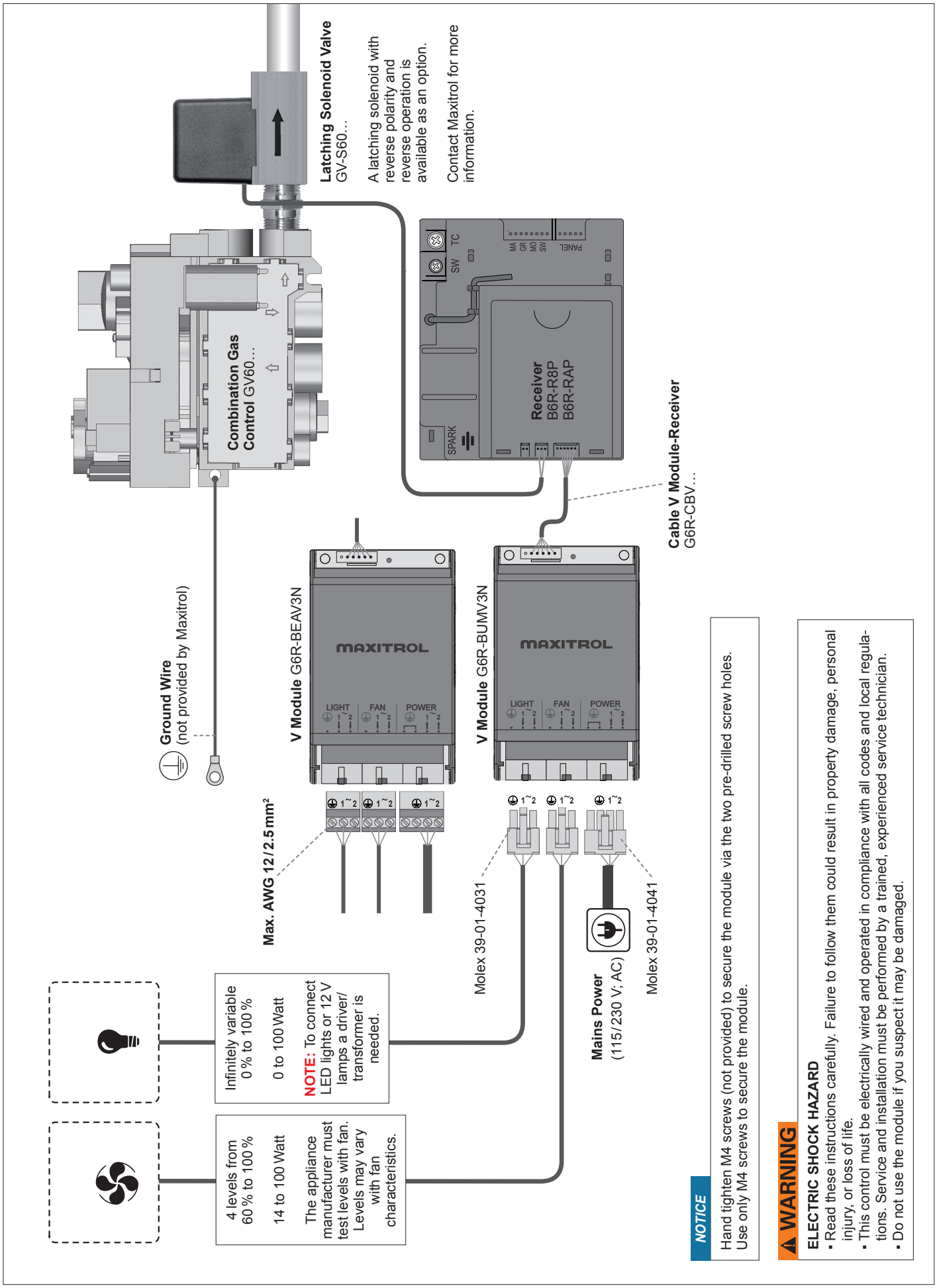
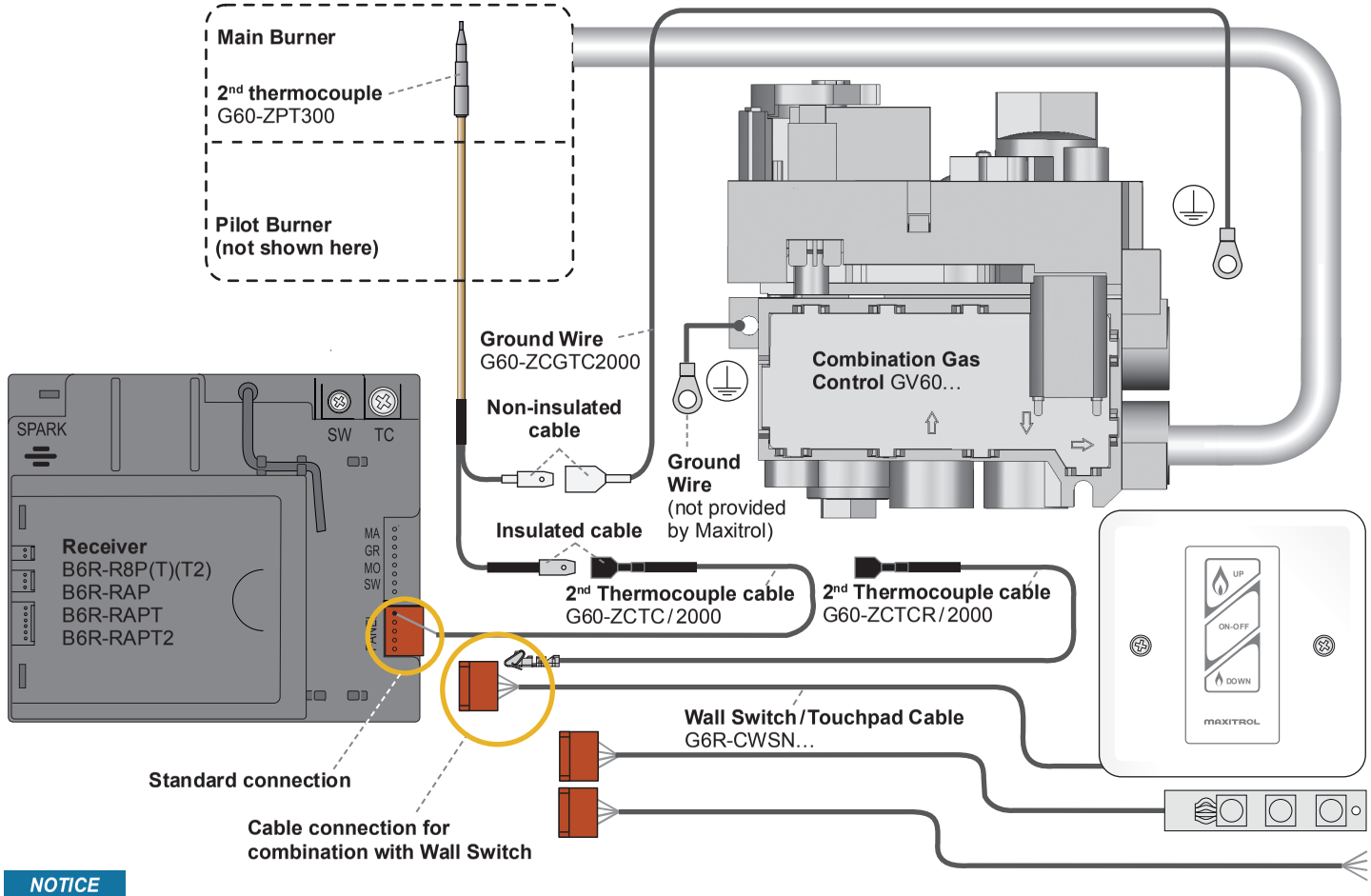



Figure 31

Figure 32



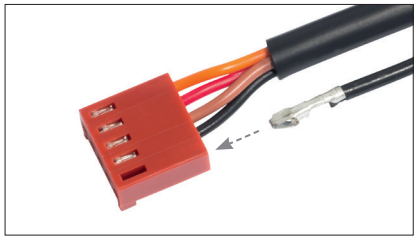



Image 1: Lock crimp terminal (G60-ZCTCR/2000) inside connector hole of the plug.

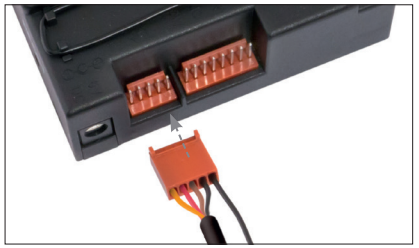


Image 2: Insert plug connector into the receiver.

**NOTICE**

The 2nd thermocouple is not a safety device.

**Connection of a 2nd thermocouple**

- A 2nd thermocouple is placed in the main burner to check that the main gas is ignited within a certain time after opening.
- The voltage is measured after 22 sec (PT) or 29 sec (PT2) each time the motor turns to the main gas position (during ignition and after each increase of the flame height). If the voltage is lower than 1.8 mV, the electronics shut off the gas flow. A new ignition is blocked for 2 minutes after ignition failure and 1 minute after failure while opening main gas.
- Receivers for 2nd thermocouple are identified with a yellow sticker on the back. They will not operate without the thermocouple connected. Other versions will not operate if the thermocouple is connected.
- To use Wall Switch, Switch Panel or External Operation Cable, the additional G60-ZCTCR/2000 cable is needed. Only use third party accessories according to EN 298 for external operation. Contact Maxitrol for more information.

**NOTICE**

To install the 2nd thermocouple make sure that the insulated male spade is connected to the insulated female spade. The non-insulated male spade must be connected to the female spade Ground Wire. The Ground Wire should be grounded at the control or fireplace.

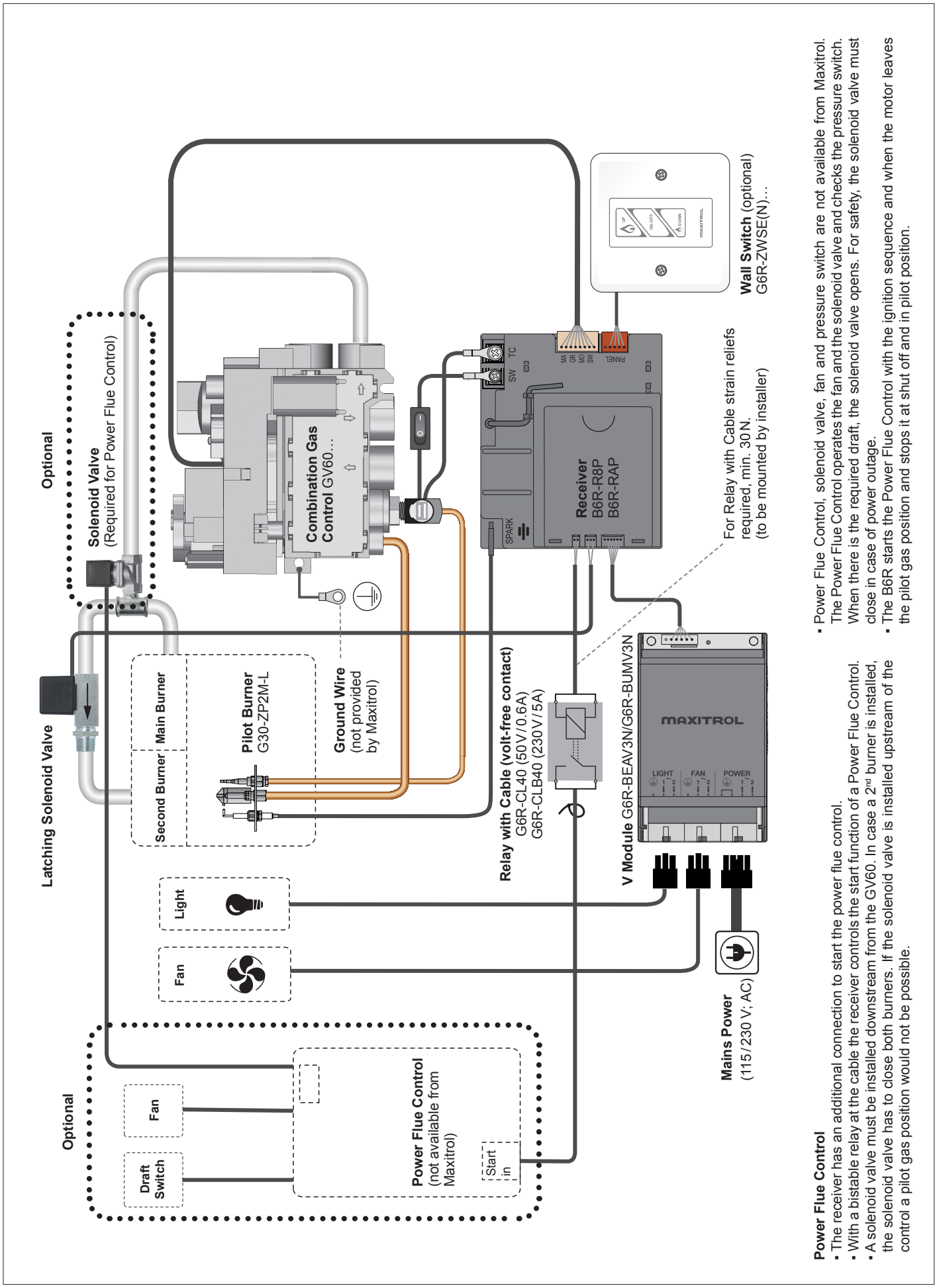
COMBINATION WITH WALL SWITCH

1. Remove G60-ZCTC/2000 cable and replace with Wall Switch/Touchpad G6R-CWSN… cable.
2. Insert the crimp terminal of the G60-ZCTCR/2000 cable into the open connector hole of the plug (see image 1). Listen for a “click”.
3. Insert the insulated receptacle into the insulated 2nd thermocouple terminal.
4. Insert the plug connector into the receiver (see image 2).

**NOTICE**

The wall switch must be protected from rain and moisture.

## RECEIVER FOR POWER FLUE CONTROL, FAN, LIGHT / DIMMER, 2ND BURNER FUNCTION (VOLT-FREE CONTACT)




**Power Flue Control**

- The receiver has an additional connection to start the power flue control.
- With a bistable relay at the cable the receiver controls the start function of a Power Flue Control.
- A solenoid valve must be installed downstream from the GV60. In case a 2nd burner is installed, the solenoid valve has to close both burners. If the solenoid valve is installed upstream of the control a pilot gas position would not be possible.

- Power Flue Control, solenoid valve, fan and pressure switch are not available from Maxitrol. The Power Flue Control operates the fan and the solenoid valve and checks the pressure switch. When there is the required draft, the solenoid valve opens. For safety, the solenoid valve must close in case of power outage.
- The B6R starts the Power Flue Control with the ignition sequence and when the motor leaves the pilot gas position and stops it at shut off and in pilot position.

Figure 33

## MYFIRE WI-FI BOX SETUP

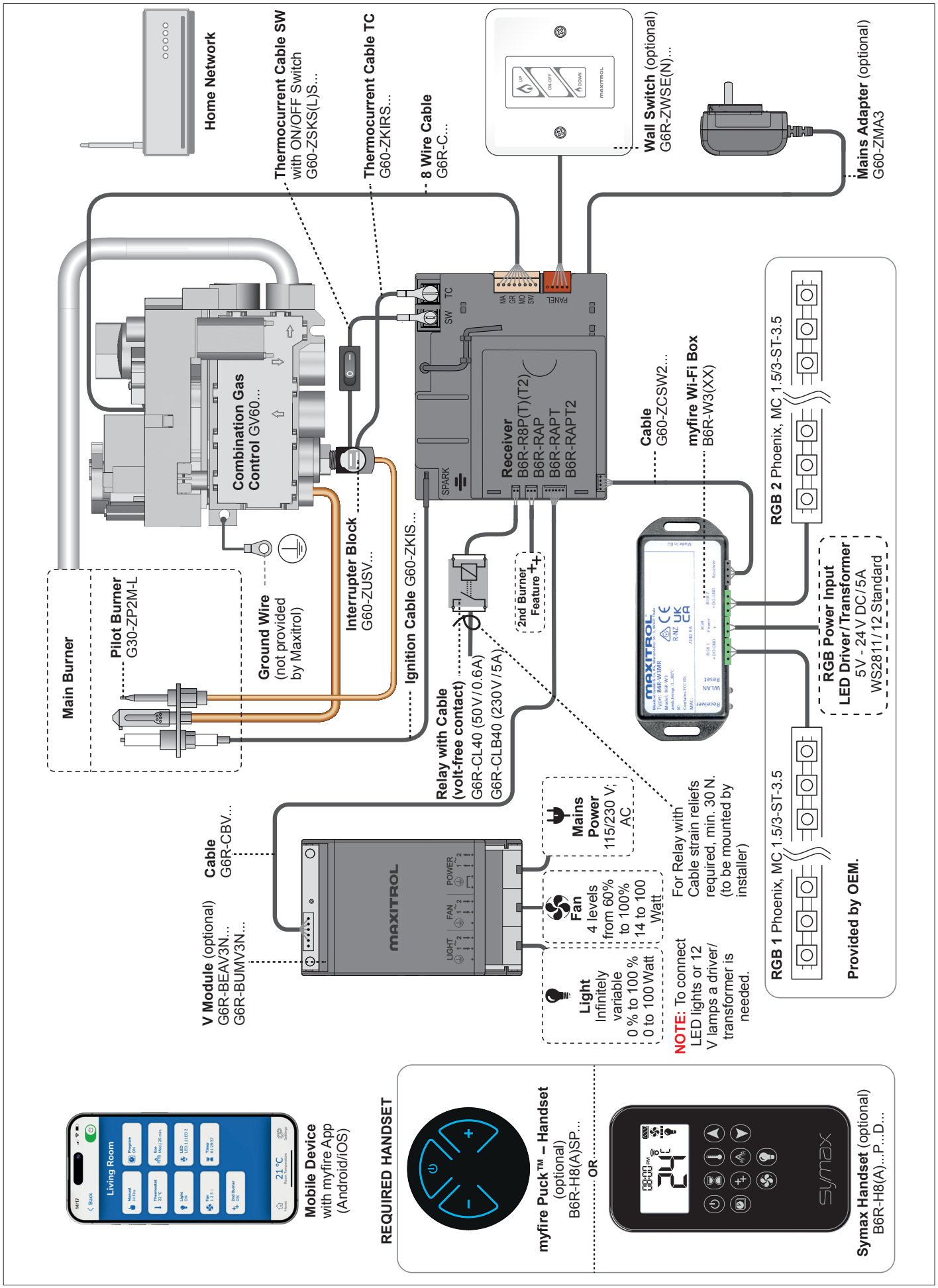



Figure 34

ENGLISH

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