GV Series
GAS COMBINATION CONTROL SYSTEMS

Precision Engineering for Multiple Markets

MERTIK MAXITROL
Exclusive Distributor for Maxitrol Company

GV Series
GAS COMBINATION CONTROL SYSTEMS

INDEX

MERTIK MAXITROL

GENERAL INFORMATION

The GV Series is a comprehensive line of gas combination control systems used to control the pilot and main burner.

In addition to its standard features and options, this unique system can be customized for use on a wide range of appliances such as space heaters, fireplaces, griddle plates, storage water heaters, or ovens. The GV Series has four configurations: manual control, hydraulic thermostat control, battery operated remote control, or battery (or line power) operated remote ignition and remote control.

All versions of the GV valve have the same footprint, allowing an appliance to be upgraded without redesigning the vestibule. An appliance can be upgraded from a manual control system to a battery operated remote control system simply by adding accessories.

APPLICATIONS
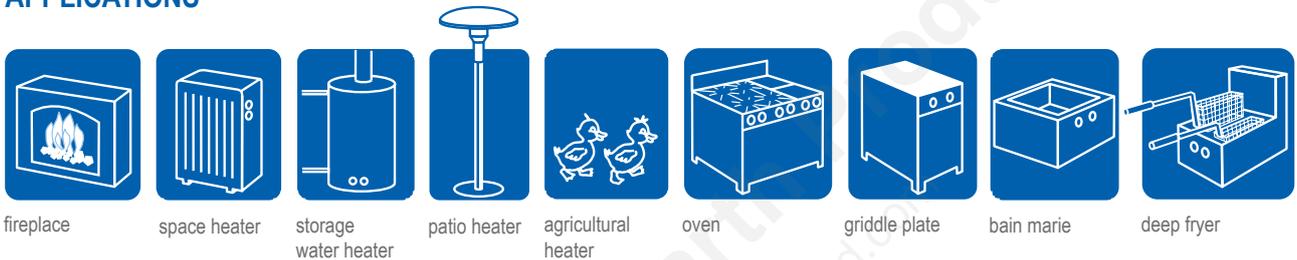
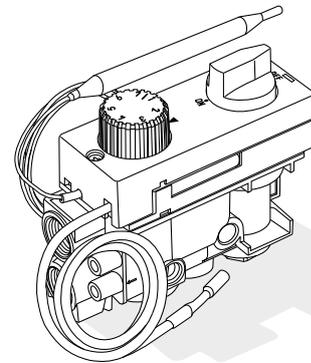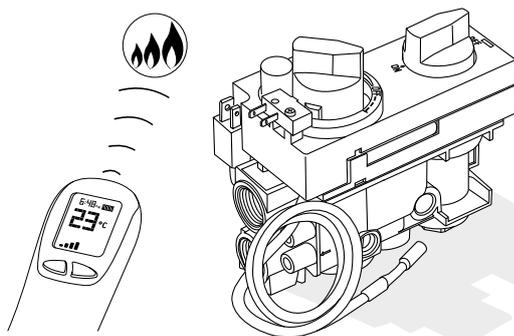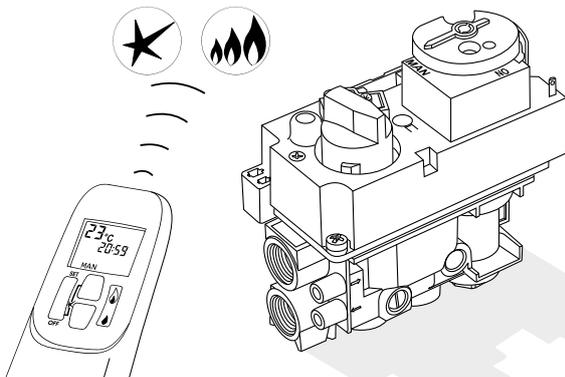| fireplace | space heater | storage water heater | patio heater | agricultural heater | oven | griddle plate | bain marie | deep fryer |

VERSIONS

Manual control (GV32)
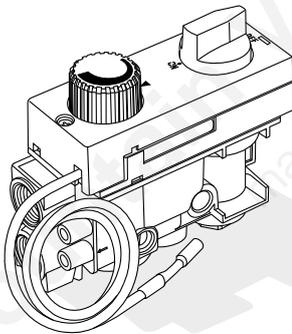
Temperature control (GV30, GV31, GV33)

Battery operated remote control (GV34)

Battery operated remote ignition and control (GV60)

GENERAL INFORMATION – APPLICATIONS – VERSIONS

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FEATURES & OPTIONS GV30 SERIES

- Compact design
- Easy operation:
  - Separate temperature knob
  - Stand-by position independent of temperature setting
- Thermo-electric flame failure device
- Interlock prevents inadvertent reignition (for CSA only: optional without interlock)
- Integrated piezo ignitor (optional)
- Min. rate setting with fixed or adjustable orifices (vented only)

- Pilot gas adjustment screw
- Pilot gas filter
- Screen in gas inlet area (optional, for CE version standard)
- Inlet/outlet connections at bottom, side, or both, providing various inlet/outlet combinations
- Liquid filled temperature sensor
- Compensator for ambient temperature effects (optional)
- Manual or motor controlled setting instead of the temperature regulator (optional)

- Side outlet for 2nd burner (i.e. for wood or coal fire simulation) independent from the temperature regulator setting with knob for 2nd burner (optional)
- Integrated pressure regulator (optional) or throttle (CE only)
- Convertible pressure regulator (optional, CSA only)
- Battery holder with connection for switch panel (optional)

FEATURES & OPTIONS GV60 SERIES

- Compact design
- Programmable handset with electronic ignition
- Manual ignition with piezo ignitor (optional)
- Thermo-electric flame failure device
- Min. rate setting with fixed or adjustable orifices (vented only)
- Pilot gas adjustment screw
- Pilot gas filter

- Screen in gas inlet area (optional, for CE version standard)
- Inlet/outlet connections at bottom, side, or both, providing various inlet/outlet combinations
- Integrated pressure regulator (optional) or throttle (CE only)
- Convertible pressure regulator (optional, CSA only)
- Designated low/high fire setting

- Variable ambient light control and circulating fan control via handset (optional)
- Connection for exhaust fan control
- GV-S60 latching solenoid (optional)
- Second thermocouple connection (optional)
- Receiver with connection for wall switch, switch panel or touch pad (optional)
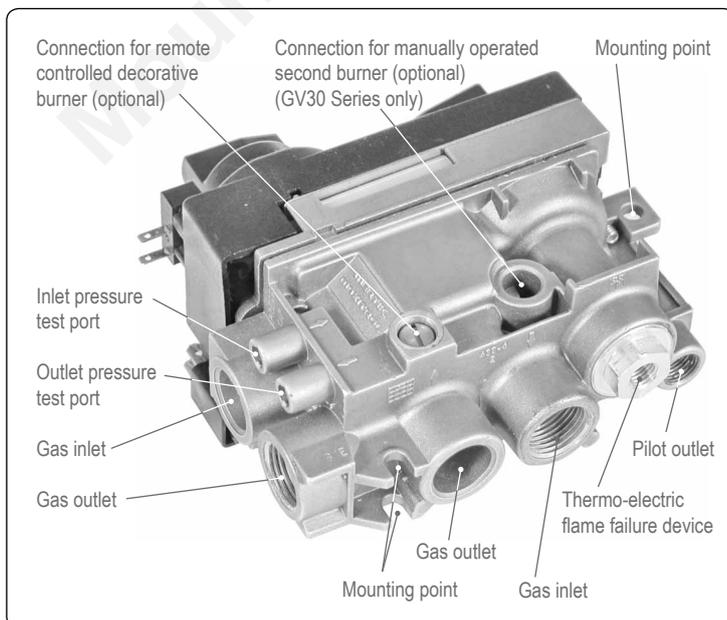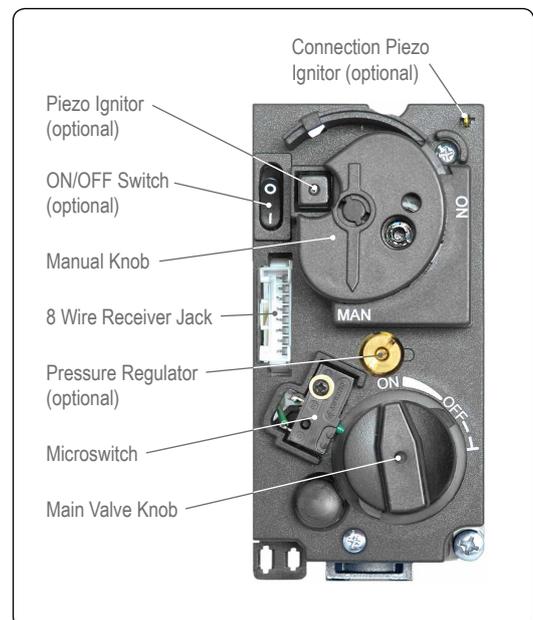
CONNECTIONS

Illustration 1: GV Series – Connections

Illustration 2: GV60 – Top view

FEATURES & OPTIONS – CONNECTIONS

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TECHNICAL DATA

	CE-Certification	CSA-Certification
Maximum Operating Pressure	5 kPa (20" w.c.)	1/2 psi (3.45 kPa)
Capacity	up to 1.45 m³/h air at 0.25 kPa pressure drop	up to 65,000 BTU at 1" w.c. pressure drop
Ambient Temperature Gas Combination Control – Standard Gas Combination Control – Optional GV34/GV38 Receiver GV60 Receiver (Radio Frequency) GV60 Receiver (Infrared)	0° to 80 °C 0° to 110 °C 0° to 60 °C 0° to 80 °C 0° to 60 °C	32° to 176 °F 32° to 230 °F 32° to 140 °F 32° to 176 °F 32° to 140 °F
Integral Pressure Regulator	class C according to EN88 adj. range 0.5–4 kPa	10,000 to 85,000 BTU/hr (ANSI 21.18) adj. range 3"–12" w.c.
Pipe Connection Thread (various inlet/outlet combinations)	Rp 3/8 DIN 10226-1/ ISO 7-1	3/8" NPT or Loxit, R 3/8"

1 kPa = 10 mbar = 4.015" w.c.

OVERVIEW

Type	Main Valve Function			Main Burner Control				2nd Burner Control	
	Shut-off & High	Low to High	Shut-off & Low to High	Manual Control	Temperature Control	Temperature & Remote Control	Remote Control	Manual Control	Remote Control
GV30		✓			✓			✓	
GV31	✓				✓			✓	
GV32		✓		✓				✓	
GV33		✓			✓			✓	
GV34			✓				✓	✓	✓
GV36			✓	✓				✓	
GV38			✓			✓		✓	✓
GV60			✓				✓		✓

Possible conversion to motorized valves (GV30–GV38; arrows point to GV34, GV36, GV38)

WORKING DIAGRAM

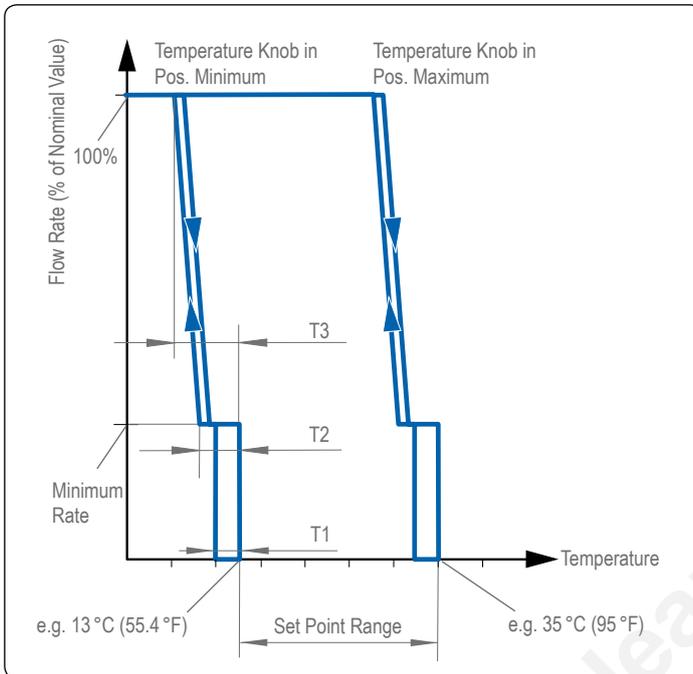
Illustration 3: Working Diagram (Example for set point range 13° to 35 °C/55.4° to 95 °F)

Set Point Range	T1[1] [K]	T2 [K]	T3 [K]	T_max[2]
13° to 35 °C 55.4° to 95 °F	2.7	< 4.5	< 7	50 °C 122 °F
40° to 90 °C 104° to 194 °F	6	< 10	< 16	110 °C 230 °F
30° to 110 °C 86° to 230 °F	8	< 13	< 20	180 °C 356 °F
66° to 260 °C 150.8° to 500 °F	14	< 22	< 35	350 °C 662 °F
110° to 190 °C 230° to 374 °F	6	< 10	< 15	260 °C 500 °F
100° to 340 °C 212° to 644 °F	17	< 28	< 43	350 °C 662 °F

[1] Mean Value
[2] Maximum Bulb Temperature

PRESSURE DROP

1 - Natural Gas d=0.64
2 - Air
3 - LPG d=1.53
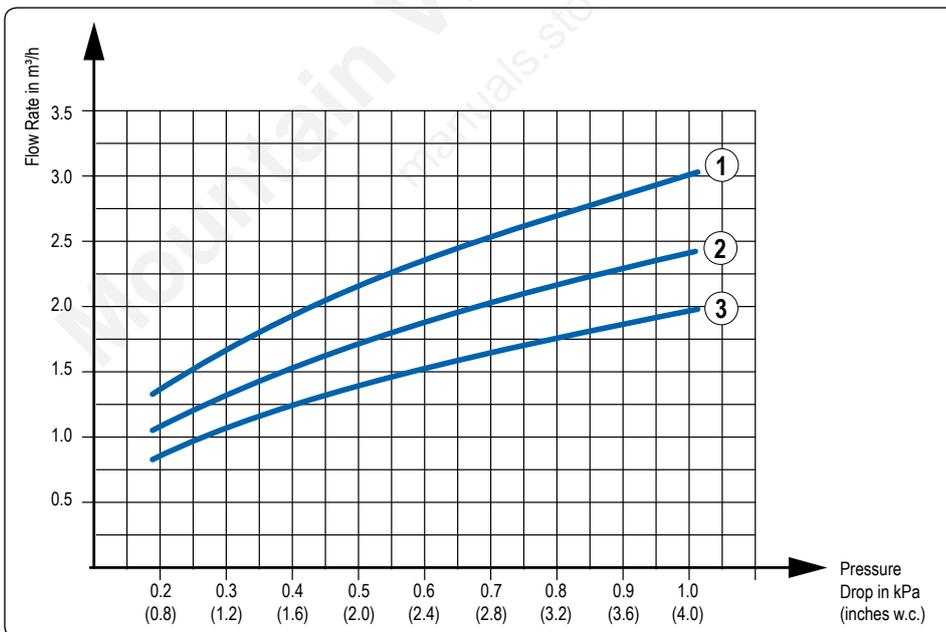
Illustration 4: Pressure Drop Diagram (standard version)

1 kPa = 10 mbar = 4.015" w.c.

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WORKING DIAGRAM – PRESSURE DROP

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VALVE FUNCTION – GV30

Operating Knob | Temperature Knob
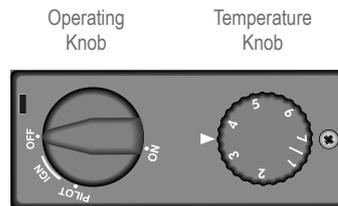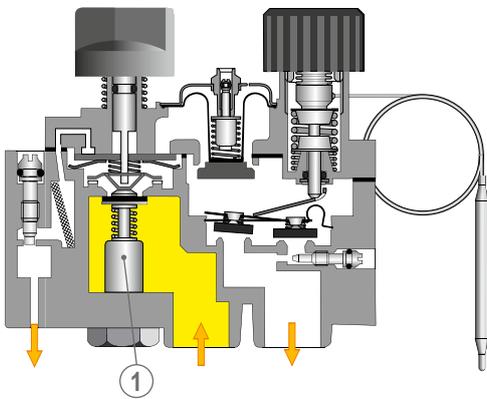
Off

Operating knob is in OFF position.

The thermo-electric flame failure device (1) is closed.
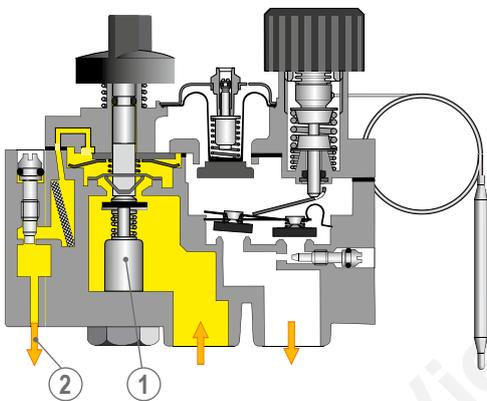
Ignition

The operating knob is in PILOT position and pressed down.

The thermo-electric flame failure device (1) is open allowing gas flow to the pilot burner (2).
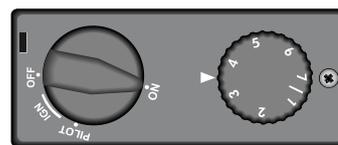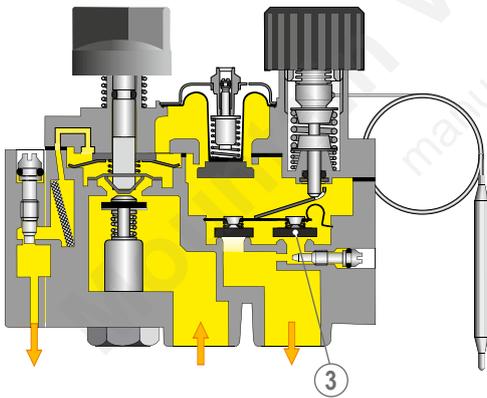
Low fire

The operating knob is in ON position.

The room temperature is slightly lower than the set temperature.

Gas flows through the low fire ON-OFF valve (3).
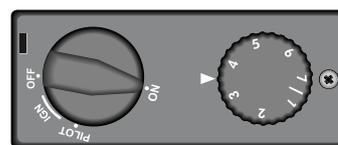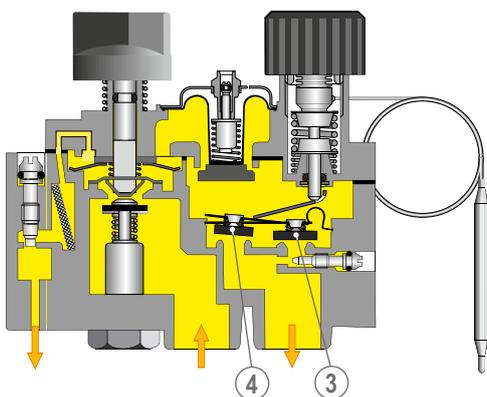
High Fire

The operating knob is in ON position.

The room temperature is lower than the set temperature.

Gas flows through the high fire modulation valve (4) and low fire ON-OFF valve (3).

DIMENSIONS AND WEIGHTS

GV30, 31, 32, 33, 36

Weight 420 g (15 ounces) without side outlet and temperature sensor

Temperature Sensor (GV30, 31, 33)

Side Outlet (optional)
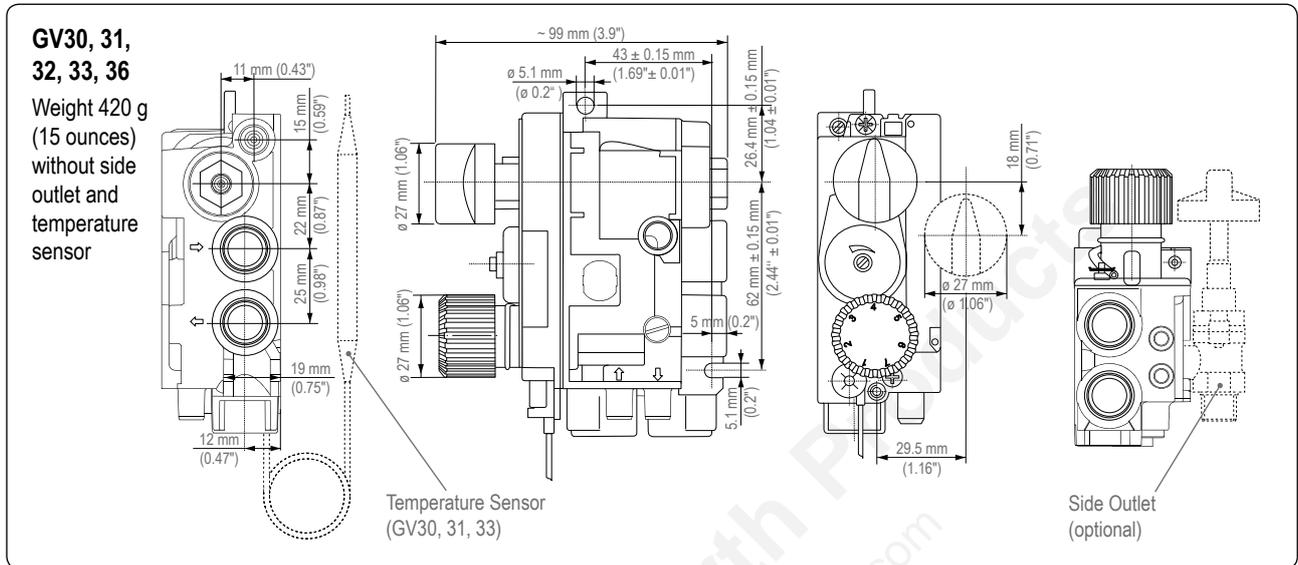
Illustration 5: GV30, 31, 32, 33, 36 – Dimensions and Weight

GV34, 38

Weight 490 g (17 ounces) without side outlet and temperature sensor

Temperature Sensor (GV38)

Side Outlet (optional)
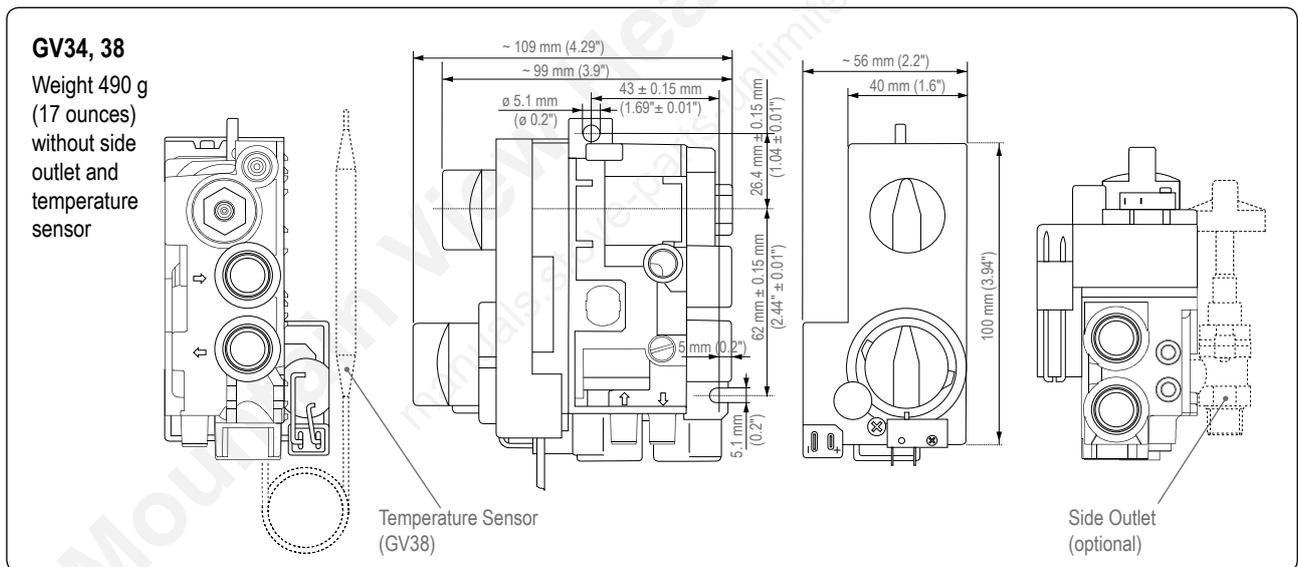
Illustration 6: GV34, 38 – Dimensions and Weight

GV60

Weight 550 g (19 ounces)

Illustration 7: GV60 Series – Dimensions and Weight

DIMENSIONS AND WEIGHTS

GV30

| space heater | agricultural heater | oven | griddle plate | bain marie | deep fryer |

The GV30 is a thermostatically controlled, modulating valve that maintains a set point temperature. Once set point temperature is reached, the valve sup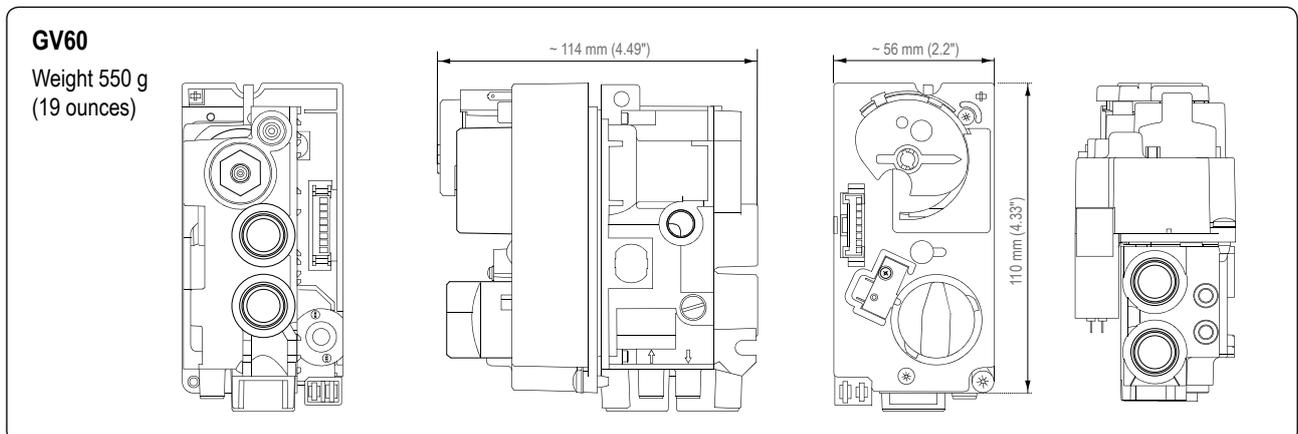plies only the amount of gas required to maintain that temperature. The valve can be converted to GV38 for applications with temperature control. The GV30 is fully enclosed for added protection.

- Operation: temperature controlled
- Temperature Sensors: various ranges between 13 °C (55.4 °F) to 340 °C (644 °F)
- Integrated piezo ignitor (optional)
- Integrated pressure regulator (optional) or throttle (CE only)
- Customized to OEM specifications
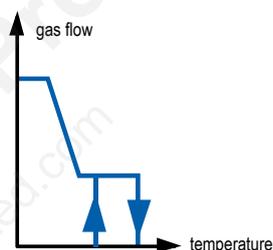
Main valve function: Shut-off Low to High

GV31

| space heater | storage water heater | agricultural heater | oven | bain marie | deep fryer |

A thermostatically controlled ON/OFF valve, the GV31 operates at maximum capacity until the set point temperature is achieved, and then it snaps off. The GV31 is fully enclosed for added protection.

- Operation: temperature controlled
- Temperature Sensors: various ranges between 13 °C (55.4 °F) to 340 °C (644 °F)
- Integrated piezo ignitor (optional)
- Integrated pressure regulator (optional) or throttle (CE only)
- Customized to OEM specifications
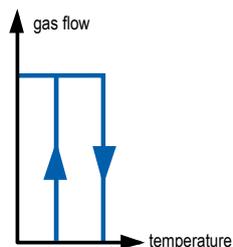
Main valve function: Shut-off & High

9

GV30 – GV31

GV32

fireplace   patio heater

The GV32 is manually operated and is adjustable between low fire and high fire. At low fire the GV32 still provides heat and, as applied to fireplaces and log sets, an aesthetically pleasing flame.

- Operation: manually controlled
- Integrated piezo ignitor
- Integrated pressure regulator (optional) or throttle (CE only)
- Customized to OEM specifications

gas flow

Main valve adjustment: Low to High

GV33

space heater   agricultural heater

After reaching the set point temperature, the thermostatically controlled GV33 goes to low fire without shutting off. When called for, the GV33 quickly provides additional heat.

- Operation: temperature controlled
- Temperature Sensors: various ranges between
  13 °C (55.4 °F) to 340 °C (644 °F)
- Integrated piezo ignitor (optional)
- Integrated pressure regulator (optional) or throttle (CE only)
- Customized to OEM specifications

gas flow

temperature
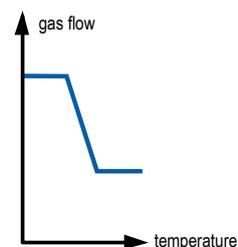
Main valve function: Low to High

IO

GV32 – GV33

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GV34

fireplace   space heater

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

- Operation: - Battery operated handset
  - Temperature sensing handset with timer function
  - Manual override
- Radio frequency or ultrasound transmission
- Integrated piezo ignitor (optional)
- Integrated pressure regulator (optional) or throttle (CE only)
- Customized to OEM specifications

gas flow

Main valve function: Shut-off Low to High

GV36

fireplace   oven   griddle plate   bain marie

The GV36 valve is manually operated to adjust the flame height. It can be easily upgraded with a motor and gear assembly to a GV34 for use with remote control system.

- Operation: manually controlled
- Integrated piezo ignitor (optional)
- Integrated pressure regulator (optional) or throttle (CE only)
- Customized to OEM specifications

gas flow

temperature

Main valve function: Shut-off Low to High

II

GV34 – GV36

GV38

fireplace space heater oven

The GV38 is a thermostatically controlled, modulating valve that maintains set point temperature for space heating. Temperature adjustment is by manual or remote control.

- Operation: - Battery operated handset
  - Temperature sensing handset with timer function
  - Manual override
- Temperature Sensors: various ranges between
  13 °C (55.4 °F) to 340 °C (644 °F)
- Radio frequency or ultrasound transmission
- Integrated piezo ignitor (optional)
- Integrated pressure regulator (optional) or throttle (CE only)
- Customized to OEM specifications
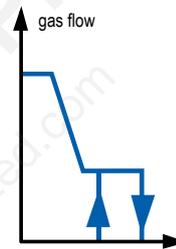

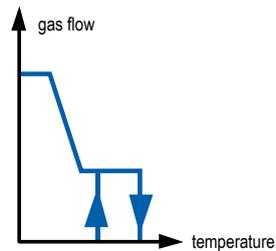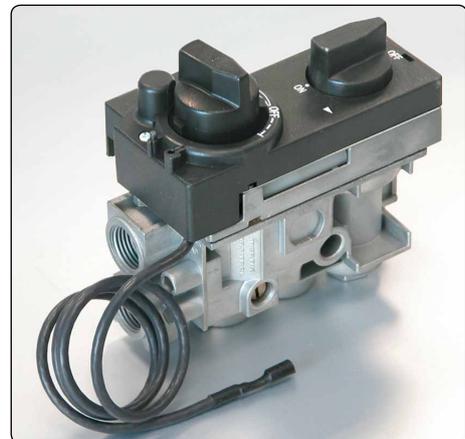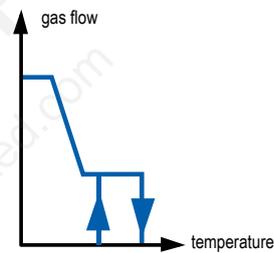Main valve function: Shut-off Low to High

GV60

fireplace patio heater

The GV60 remote ignition and control system operates in conjunction with standard pilot burner and ODS systems. When used with thermostatic handset, the GV60 fully modulates between low fire and high fire.

- Operation: - Battery operated handset
  - Temperature sensing handset with timer function
  - Manual override
  - Low battery consumption
- Radio frequency (RF) or infrared transmission (IR)
- Second thermocouple connection for main burner
- Variable ambient light control (RF version only)
- Circulating fan control with 4 speed levels and OFF (RF version only)
- Integrated piezo ignitor (optional) for manual override
- Integrated pressure regulator (optional) or throttle (CE only)
- Customized to OEM specifications
- Connection for exhaust fan control
- Connection for GV-S60 latching solenoid for second burner control
- Designated low/high fire setting

Main valve function: Shut-off Low to High

GV38 – GV60

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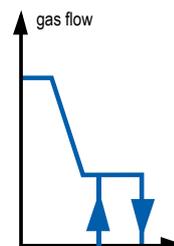
GV-S60

![fireplace icon] fireplace

The GV-S60 is a battery operated latching solenoid valve for controlling two burner applications. Both burners must have flame supervision from the same pilot source (one ignition for both burners). It is for use on hearth products that incorporate a separate, decorative burner and are controlled by Mertik Maxitrol GV60 electronics. When the latching solenoid valve is attached to the GV60 main burner outlet, the main burner can be switched OFF while the decorative burner remains ON.
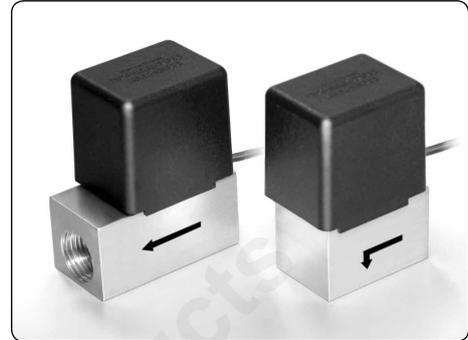
	CE-Certification	CSA-Certification
Maximum Operating Inlet Pressure	5 kPa (20" w.c.)	1/2 psi (3.45 kPa)
Ambient Temperature	0 °C to 80 °C (0 °C to 110 °C optional)	32 °F to 176 °F (32 °F to 230 °F optional)
Gas Inlet Connection / Gas Outlet Connection	Rp 3/8 DIN 10226-1/ISO 7-1	Rp 3/8 DIN 10226-1/ ISO 7-1 / M12x1 for 8 mm tube
Capacity	1 m³/h at 0.25 kPa pressure drop / 45,000 BTU/hr* of 1" w.c. pressure drop	

*The capacity is based on natural gas having a heating value of 1,000 Btu/ft³ (10.35 kWh/m³), and a specific gravity of 0.64.

1 kPa = 10 mbar = 4.015" w.c.

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GV-S60

R300 REMOTE CONTROL SYSTEMS (for GV34 & GV38)

Radio Frequency	Europe 868 MHz, U.S./Canada 915 MHz

Ambient Temperature	
Handset	max. 60 °C (140 °F)
Receiver	max. 60 °C (140 °F)
Connecting Cable	max. 180 °C (365 °F)

Weight (without batteries)	
Handset	50 g (2 ounces)
Receiver (without cable)	75 g (3 ounces)

Batteries	
Handset	2 x 1.5 V AAA (low battery indication)
Receiver	4 x 1.5 V AA (low battery indication)

Icon	Description
22 °C	Ambient Temperature Display (°F or °C)
Battery icon	Battery Life Indicator
22:00	Clock (12 or 24 hour)
Signal icon	Communication Indicator
Child icon	Child Safety Lock
Moon icon	Timer OFF/Sleep Mode
Sun icon	Timer On (equipped with two timers)
Thermometer icon	Automatic Temperature Control
Bar icon	Temperature Range Indicator

Illustration 8: Icons on Display

Standard Handset Ambient Temperature Display	Thermostat & Timer Handset [1]	Receiver

Illustration 9: R300 Remote Control Systems

[1] The Handset is intended for use with motorized gas combination control models GV34 (or GV36 retrofitted with a motor and gear assembly).

depth 22 mm (0.87")
depth 28 mm (1.1")
130 mm (5.12")
89 mm (3.5")
47 mm (1.85")
65 mm (2.56")
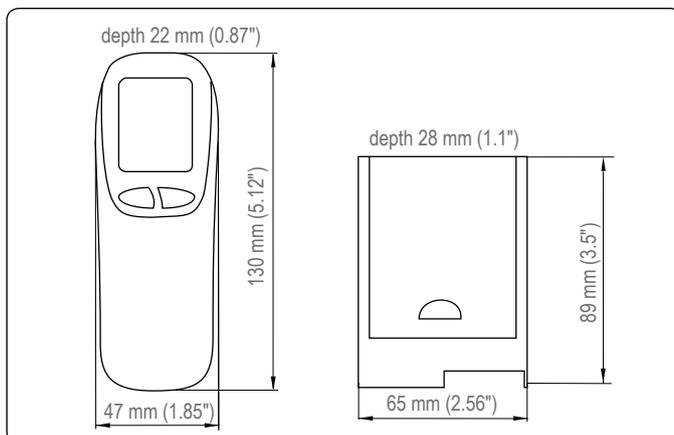
Illustration 10: Dimensions Handset and Receiver

4-Wire Connecting Cable
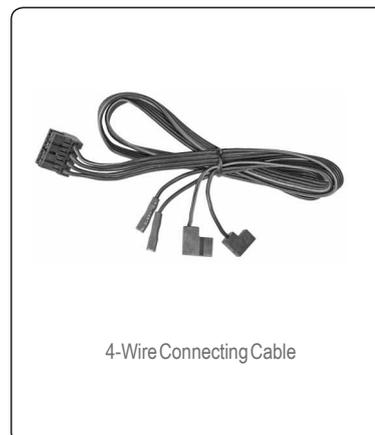
Illustration 11: GV34, 38 – Cable (included in handset/receiver set)

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R300 REMOTE CONTROL SYSTEMS – OPERATION

Modes of Operation

Press and release both buttons on Handset to change the mode of operation in the following order:

1. Manual mode [1, 2]
   - Manual flame height adjustment via buttons on Handset.

2. Thermostatic Mode [2]
   - Room temperature is measured and compared to the set temperature.
   - Flame height is then automatically adjusted to achieve the set temperature.

3. Timer Mode [2]
   - Timer 1 and 2 each can be programmed to go ON and OFF at specific times.
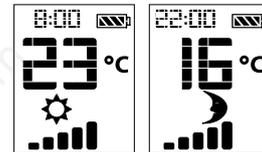
Child Safety Lock [1, 2]

- When ON the right button must be pushed twice within 0.5 seconds to increase flame height.
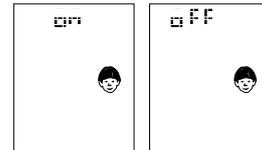
Sleep Mode [1, 2]

- After 8 hours of no signal between the handset and receiver, valve runs to pilot.

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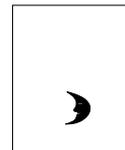
[1] Standard Handset
[2] Thermostat & Timer Handset

GV34 – ELECTRONIC OPTIONS

Receiver

Connecting Cable
AC Adapter – Receiver
(optional)

4-Wire Connecting Cable

Handset

Gas Combination
Control GV34

Micro
Switch

Electrode (Ignition)
Cable

Interrupter Block
(optional)

Pilot Burner

High Limit Switch
(optional)

Pilot Gas Connection

Mains Adapter (optional)

* not supplied by Mertik Maxitrol
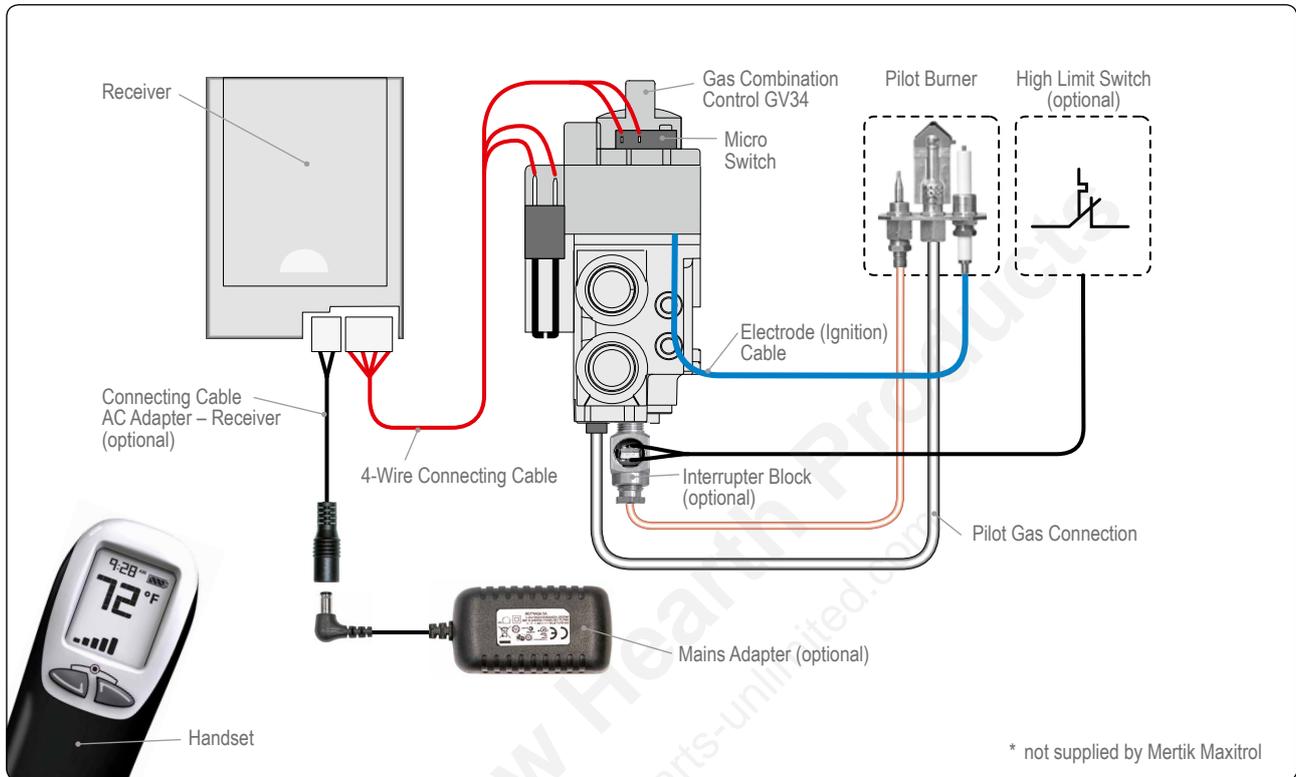
Illustration 12: GV34 – Electronic Options

CABLES

4-wire connecting cable	G30-ZRCP Connecting Cable AC Adapter – Receiver
Length [mm]	Length [mm]
350	80
800	

GV30 – ACCESSORIES AND REPLACEMENT PARTS (more available on request)

Knobs & Adapters

Geared Motor

Mains Adapter with connections for
EU, UK and U.S.

Covers

GV 34 Wall Holder

Connecting Cable
AC Adapter – Receiver

Ignition Cable

Micro Switch

Thermocurrent
Interrupter

Switch Panel with Battery Holder

Plugs

Compression Fittings

Conversion Cable
Receiver – Battery Holder

Adjustable and Fixed Orifices

Inlet/Outlet Adapter
for Thread Connection

Pilot Burner (CE only)

Illustration 13: GV30 Series – Accessories and Replacement Parts

GV60 – HANDSETS

Radio Frequency Transmission (RF)	**Infrared Transmission** (IR)*
Europe 433.92 MHz; U.S. 315 MHz (FCC ID: RTD-G6R) and Canada (IC: 4943A-G6R)	Wave-Length 940 nm ± 50 nm Working Range 0.5 m (1.6') to 10 m (32.8') line-of-sight to infrared sensor required

Ambient Temperature (without batteries)
Handset	max. 60 °C (140 °F)
Receiver (RF)	max. 80 °C (176 °F)
Receiver (IR)	max. 60 °C (140 °F)
Connecting Cable &	
Thermocurrent Cable	max. 105 °C (221 °F)
Ignition Cable	max. 150 °C (302 °F)
Infrared Sensor	max. 80 °C (176 °F)

Weight (without batteries)
Handset	65 g (2.5 ounces)
Receiver	190 g (7 ounces)

Batteries
Handset	1 x 9 V
Receiver	4 x 1.5 VAA

* Handset according to Gadac Guidance Sheet B12, 10/2004

22 °C	Ambient Temperature Display (°F or °C)
	Battery Life Indicator
22:00	Clock (12 or 24 hour)
	Communication Indicator
	Circulating Fan
	Light/Dimmer
TEMP	Day-/Nighttime Temperature Mode
TIMER	Timer Mode
MAN	MAN Mode
P1 P2	Timer (equipped with two timers)
AUX	Latching Solenid

Illustration 14: Icons on Display

Standard Handset   Handset with Room Temperature Display   Handset with Thermostat & Timer   Receiver
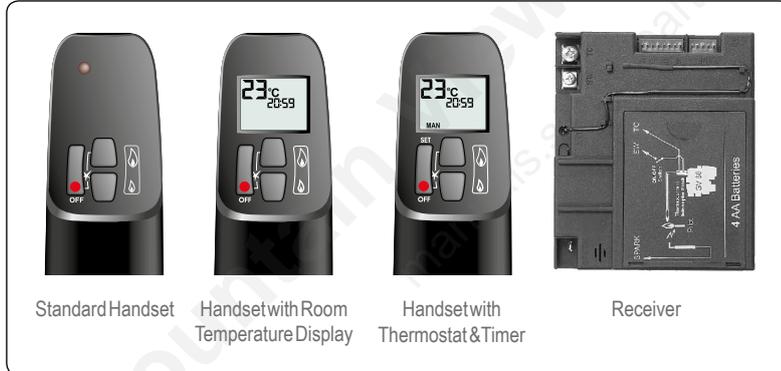
Illustration 15: Handsets/Receiver for Radio Frequency Transmission (RF)

Infrared Handset   Receiver
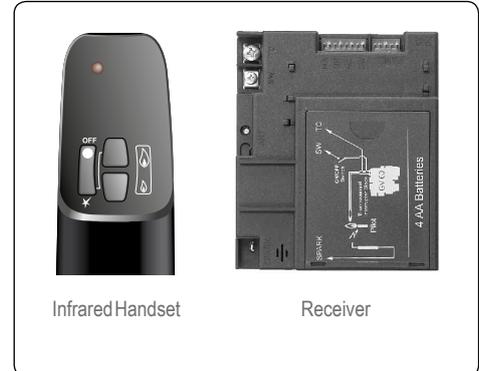
Illustration 16: Handset/Receiver for Infrared Transmission (IR)

depth 24 mm (0.94")
143 mm (5.63")
52 mm (2.05")
depth 33 mm (1.3")
108 mm (4.25")
91 mm (3.58")
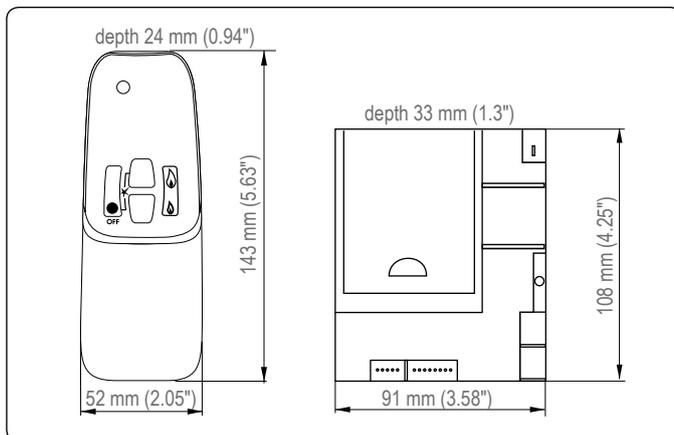
Illustration 17: GV60 – Dimensions Handset and Receiver

8-Wire Connecting Cable (for Radio Frequency and Infrared Transmission)   Infrared Sensor (for Infrared Transmission)

Illustration 18: GV60 – Cable (included in Handset/Receiver Set)

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GV60 – OPERATION

Modes of Operation

Briefly press the SET button on Handset to change the mode of operation in the following order:

1. Manual Mode [2]
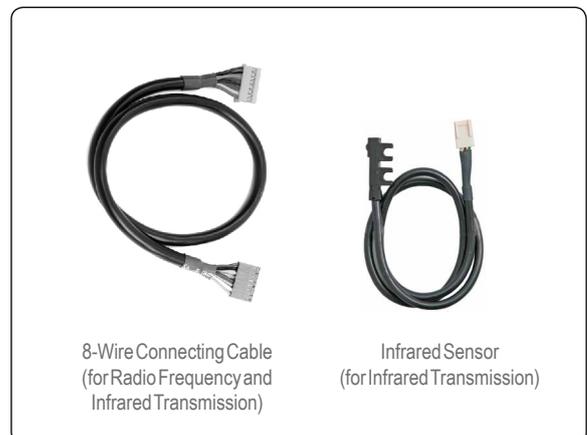   - Manual flame height adjustment via buttons ◊ (large flame) or ◊ (small flame) on Handset.
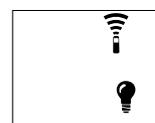
2. Daytime Temperature Mode [2]
   - Room temperature is measured and compared to the set temperature.
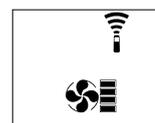   - Flame height is then automatically adjusted to achieve the Daytime Set Temperature.

3. Light/Dimmer Setting Mode [1, 2]
   - Turns light/dimmer ON and OFF and adjusts brightness.
   - Light ON but no flame is also possible.

4. Circulating Fan Setting Mode [1, 2]
   - Turns circulating fan ON and OFF and adjusts fan speed (4 speed levels from low to high).
   - Fan starts 4 minutes after the gas opens at maximum speed and goes to the displayed level after 10 seconds.
   - Fan stops 10 minutes after the gas is OFF or at pilot.

5. Nighttime Setback Temperature Mode [2]
   - Room temperature is measured and compared to the set temperature.
   - Flame height is then automatically adjusted to achieve the Nighttime Setback Temperature.

6. Timer Mode [2]
   - Timer P1 and P2 (Program 1, Program 2) each can be programmed to go ON and OFF at specific times.
   - Set temperature will be shown every 30 seconds on the display.

Designated Low and High Fire Setting [1, 2]

- Double-click ◊ (small flame) button. Flame will automatically go to low fire.
- Double-click ◊ (large flame) button. Flame will automatically go to high fire.

Second Thermocouple Option

- Second thermocouple is placed in the main burner in order to check that the main gas is ignited within a certain time after opening.
- Voltage will be measured T1 (22 sec) after the motor has turned in high fire direction (after ignition and after increasing flame height).
- If than the voltage is lower that 1.8mV, the electronic shuts off the gas completely.
- New start is blocked for T2, which is 2 minutes after ignition and 1 minute after failure while opening main gas.
- Receivers for second thermocouple are marked with a yellow dot. They will not work without the thermocouple connected. Other versions will not work if the thermocouple is connected.

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[1] Standard Handset
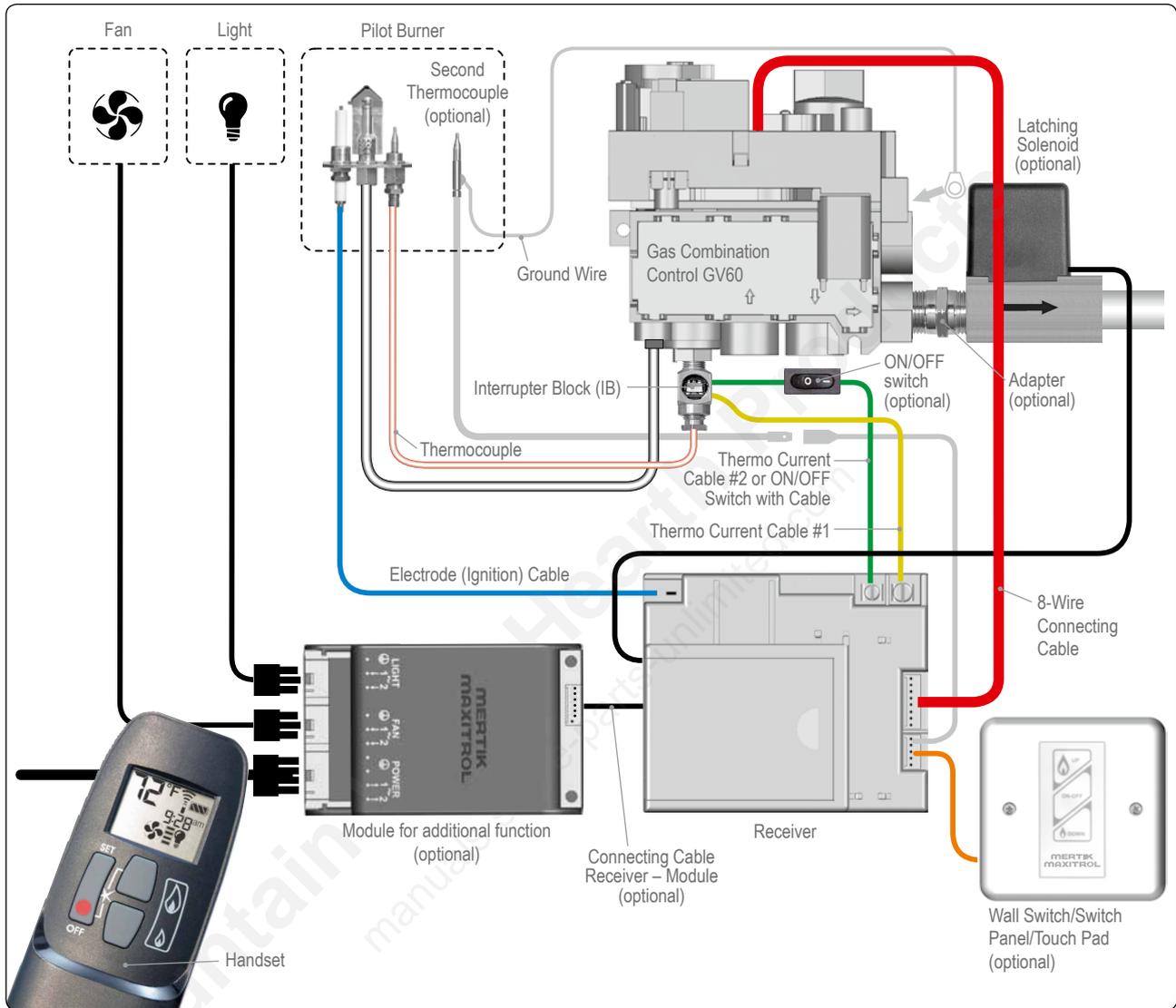[2] Thermostat & Timer Handset

19

GV60 – ELECTRONIC OPTIONS

Illustration 19: GV60 – Electronic Options

CABLES

G6R-C	G6R-ZKIRF	ON/OFF switch with cable or thermo current cable #2					G60-ZKI..		G6R-SP/G6R-TP	G6R-ZWSN	G6R-CBV
8-wire connecting cable	Thermo current cable #1	G60-ZSKSF ON/OFF switch with cable (switch in cover)		G60-ZSKLF ON/OFF switch withcable (switch on appliance)		G60-ZKIRSWF Thermo current cable #2	Electrode (ignition) cable		Switch panel with cable/Touch pad with cable	Wall switch with cable	Connecting Cable Receiver - Module
		IB to switch	Switch to receiver	IB to switch	Switch to receiver						
		Length [mm]					ø [mm]	Length [mm]	Length [mm]		
350	350	180	350	350	350	350	4	350, 500, 900, 1200, 1500	1000	500	500
500	800		800	500	500	800	2.45	350, 500, 900, 1200	1500	1500	1000
800	1200		1200	800	800	1200	2.36	350, 500, 900	3000	3000	1500
1200	1800		1800			1800	1.6	350, 500, 900,1800	8000	8000	
1800							1.3	350, 500, 900			
							2.8x 0.5 mm	350, 500, 900, 1500, 1800			

GV60 – ACCESSORIES AND REPLACEMENT PARTS (more available on request)

Ignition Cable

ON-OFF Switch with Cable

Thermo Current Cable

Relay with Cable Exhaust G6R-CL..

Cable for second Thermocouple

Pilot Burner

Thermo Current Interrupter

Plug for Cover

Plugs

Inlet/Outlet Adapter for Thread Connection

Adjustable and Fixed Orifices

Compression Fittings

Mains Adapter with connections for EU, UK and U.S.

Touch Pad

Wall Switch CE version

Wall Switch CSA version

Switch Panel with Cable

Examples for module for additional function (different module versions for CE/CSA available)

Cable module – receiver

Connection Cable with Battery Holder

Wall Holder

Illustration 20: GV60 Series – Accessories and Replacement Parts

GV30 SERIES FOR COMMERCIAL COOKING

GV30, GV30 max and GV31 gas combination controls were designed for commercial cooking equipment. Different sensors are available for specific applications. The GV Series controls can be equipped with D-stems allowing the customer to use their own knobs, personalizing the appliance front. Also available with ambient temperature compensator.
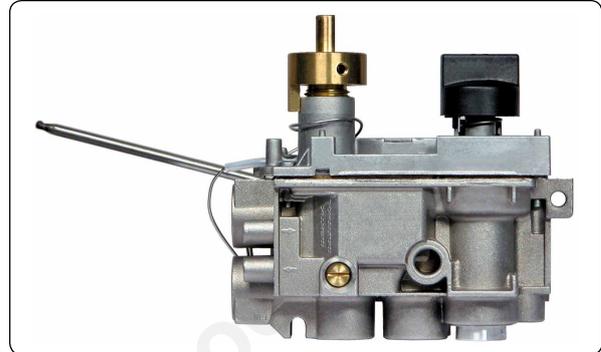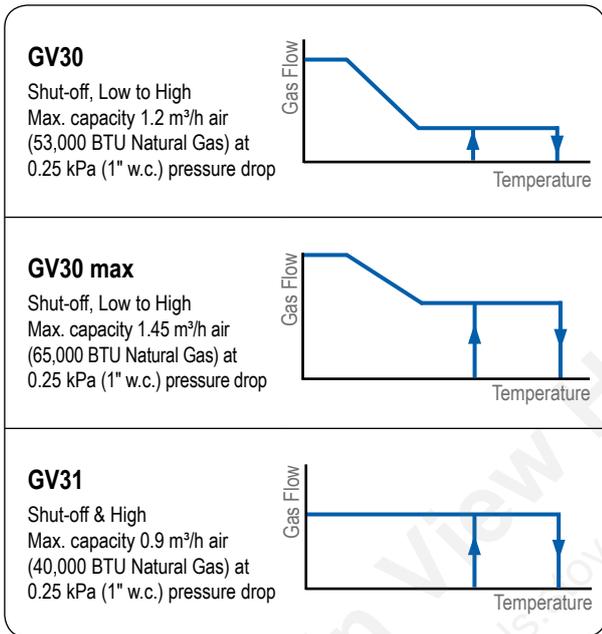
MAIN VALVE FUNCTION

GV30

Shut-off, Low to High
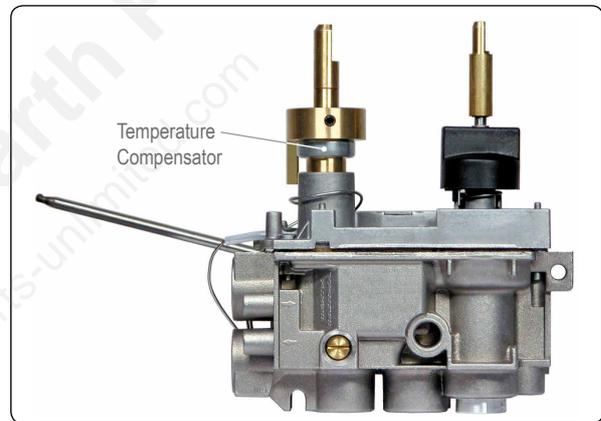Max. capacity 1.2 m³/h air
(53,000 BTU Natural Gas) at
0.25 kPa (1" w.c.) pressure drop

Gas Flow vs Temperature diagram

GV30 max

Shut-off, Low to High
Max. capacity 1.45 m³/h air
(65,000 BTU Natural Gas) at
0.25 kPa (1" w.c.) pressure drop

Gas Flow vs Temperature diagram

GV31

Shut-off & High
Max. capacity 0.9 m³/h air
(40,000 BTU Natural Gas) at
0.25 kPa (1" w.c.) pressure drop

Gas Flow vs Temperature diagram

Illustration 21: GV30 Series, Standard

Illustration 22: GV30 Series with temperature compensator

Temperature Compensator

PRESSURE DROP DIAGRAM
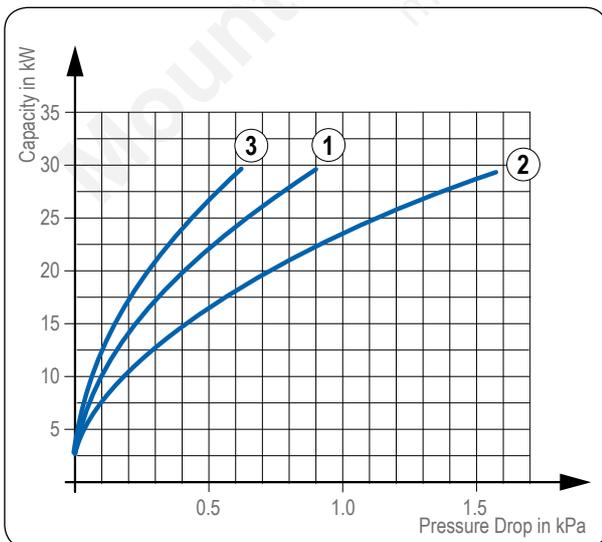
Illustration 23: Pressure Drop Diagram in kPa

Illustration 24: Pressure Drop Diagram in inches w.c.

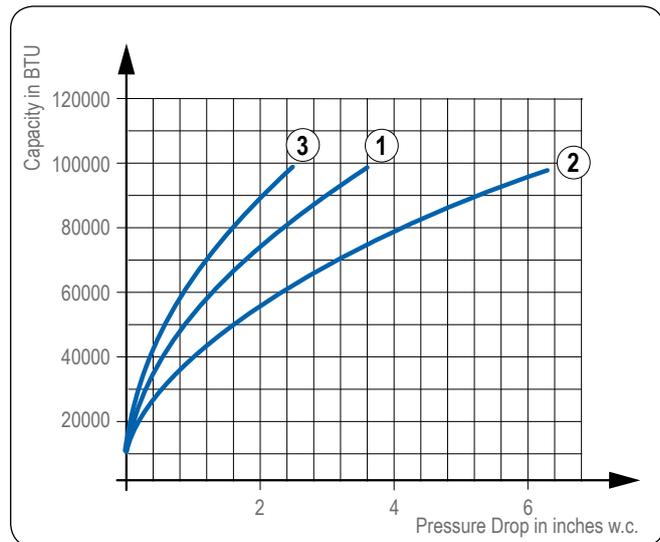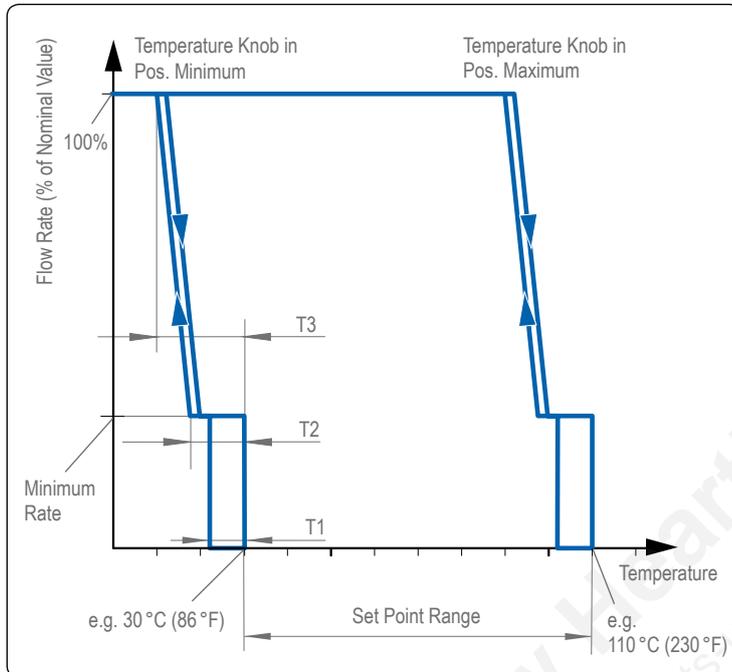① - GV30 / ② - GV31 / ③ - GV30 max

1 kPa = 10 mbar = 4.015" w.c.

COMMERCIAL COOKING

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GV30 SERIES FOR COMMERCIAL COOKING

WORKING DIAGRAM

Illustration 25: Working Diagram (Example for set point range 30° to 110 °C/86° to 230 °F)

Set Point Range	T1[1] [K]	T2 [K]	T3 [K]	T$_{max}$[2]
30° to 110 °C 86° to 230 °F	8	< 13	< 20	180 °C 356 °F
66° to 260 °C 150.8° to 500 °F	14	< 22	< 35	350 °C 662 °F
100° to 340 °C 212° to 644 °F	17	< 28	< 43	350 °C 662 °F
110° to 190 °C 230° to 374 °F	6	< 10	< 15	260 °C 500 °F

[1] Mean Value
[2] Maximum Bulb Temperature

SENSORS (other sensors available on request)

Application	Sensor (stainless steel)	Temperature Range °C (°F)	Capillary Length mm (ft)	Sensor Length mm (inch)	Sensor Diameter mm (inch)
Bain Marie		30...110 (86...230)	810 (2.7)	79 (3.1)	6 (0.24)
Griddle Plate		66...260 (150.8...500)	1350 (4.43)	103 (4.06)	4 (0.16)
Oven		100...340 (212...644)	810 (2.7)	86 (3.39)	4 (0.16)
Deep Fryer [3]		110...190 (230...374)	810 (2.7)	160 (6.3)	5 (0.20)

Illustration 26: GV30 Series – Sensors

[3] With or without fitting 1/4 NPT or Rc 1/4" available.
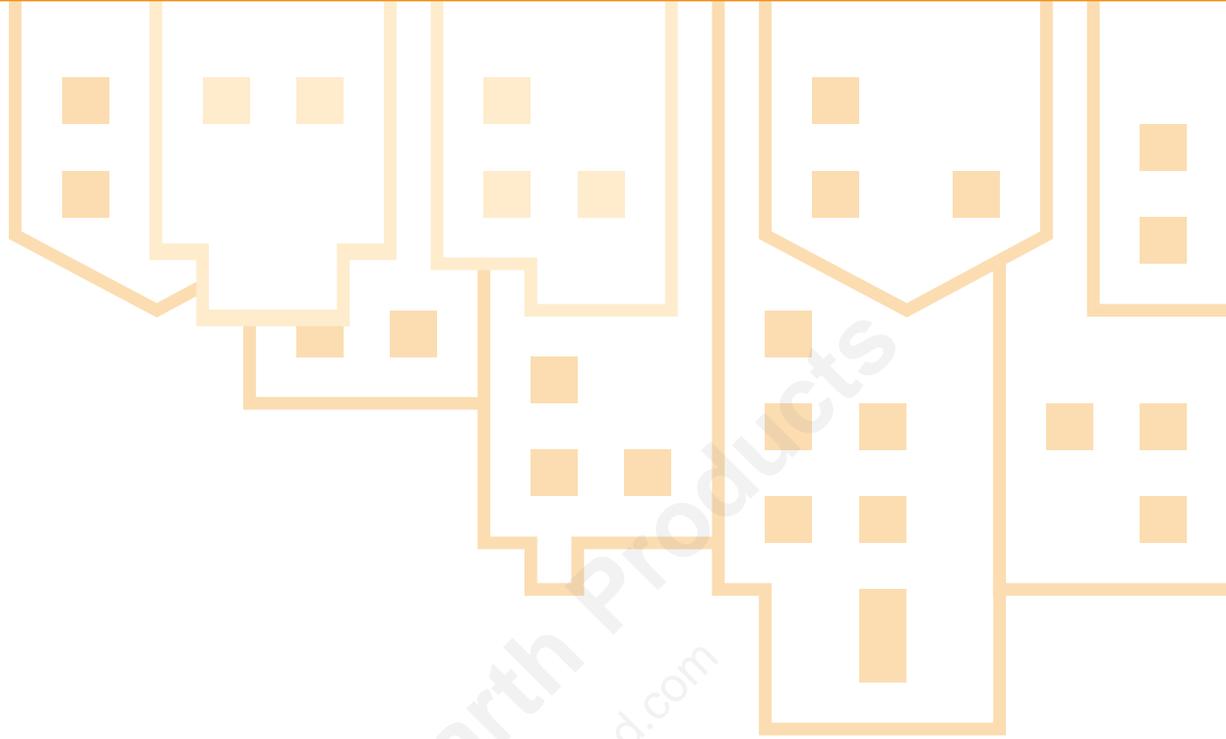
COMMERCIAL COOKING

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