

Remote Control Feature

The module has a built in remote control receiver that allows the user to program the remote transmitter at any time during or after the installation of the burner.

1. There is a switch located on the right side of the module that reads REMOTE/OFF (**Figure 1**).
2. When the remote/off switch is in the OFF position, the burner will operate from the rocker switch or wall switch connected to the two BROWN wires on the module.
3. When the remote/off is in the REMOTE position the burner will operate from the Remote Control transmitter.

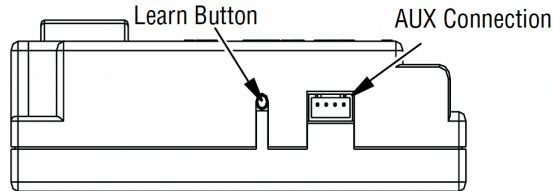


Figure 1- Gas Module Left Side

NOTE: The module must be programmed to the Remote Control transmitter.

- To program the module (make sure the system has power), locate the learn button on left side as shown in **Figure 1**. Press and release the learn button. There will be a beep sound from the module. Then press any button on the remote transmitter. Once the module's internal receiver accepts the transmitter code, there will be a series of confirming beeps.
- The remote system is ready for use.

REMOTE CONTROL OPERATION

This remote control system was developed to provide a safe, reliable, and user-friendly remote control system. The system can be operated manually from the transmitter.

The transmitter operates with (4) AAA 1.5V batteries that are included. Install the batteries supplied with the unit into the battery compartment. It is recommended that ALKALINE batteries always be used for this product. Be sure the batteries are installed with the (+) and (-) ends facing the correct direction.

When you start up the remote, if a low battery signal appears or if the LCD screen does not illuminate when you touch it, check battery position and if the batteries are fully charged.

Touch Screen LCD and Button Layout

Functional Description

NOTE: All function adjustments will be automatically accepted 15-seconds after pressing a given touch zone or button. The user may press the MODE/SET button to immediately accept the adjustment manually.

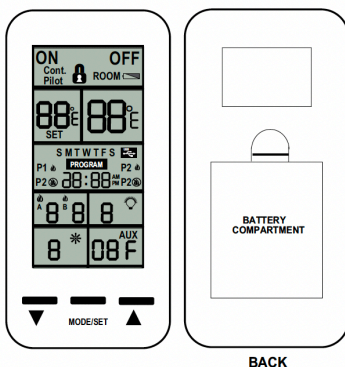


Figure 2- Remote Control Battery Compartment

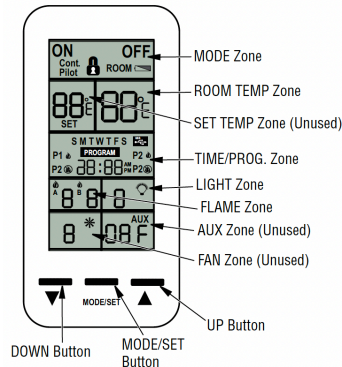


Figure 3- Touch Screen Settings

Day and Time Display

- The current day of week and time of day will be continuously displayed in the TIME/PROG Zone (except during Setup operations).
- The day of week will be displayed as one of the following: S, M, T, W, T, F, S
- The time of day will be in 12-hour AM, 12-hour PM format. Midnight will be displayed as 12:00am.
- Day/Time Setup:
 - Press and hold the MODE Zone or the MODE/SET Button for 5 seconds to enter Day/Time Setup.
 - Press the UP or DOWN Buttons to adjust the day of week (press the MODE/SET Button or wait for 15 seconds for adjustment to be accepted, then enter hour of day adjustment).
 - Press the UP or DOWN Buttons to adjust the hour of the day. The time will advance in 1-hour increments; AM and PM will change when the hour advances to 12:00 midnight and 12:00 noon respectively (press the MODE/SET Button or wait for 15 seconds for adjustment to be accepted, then enter minute of hour adjustment).
 - Press the UP or DOWN Buttons to adjust the minute of the hour. The time will advance in 1-minute increments (press the MODE/SET Button or wait for 15 seconds and the transmitter will exit Day/Time Setup and return to normal operation).
- LCD Displays – when in Day/Time Setup:
 - ☐ MODE Zone: Blank
 - ☐ ROOM TEMP Zone: Blank
 - ☐ SET TEMP Zone: Blank
 - ☐ LIGHT Zone: Blank
 - ☐ FAN Zone: Blank
 - ☐ TIME/PROG Zone: Day of Week, or Time of Day will Flash
 - ☐ AUX Zone: Blank
 - ☐ FLAME Zone: Blank
- Temperatures may be displayed in degrees F (factory default) or degrees C. Press the up and down buttons simultaneously to change between degrees F. and C.

MODES OF OPERATION

Operation modes:

- MANUAL OFF
 - MANUAL ON
- The modes may be cycled in the order above by pressing the MODE Zone or the MODE/SET Button.

MANUAL OFF MODE:

- Transmits flame OFF command.
- LCD Displays:
 - MODE Zone: OFF is displayed
 - ROOM TEMP Zone: Measured temperature is displayed
 - SET TEMP Zone: Blank
 - LIGHT Zone: LIGHT and light setting level is displayed
 - FAN Zone: Blank
 - TIME/PROG Zone: Current day indicator and current time is displayed
 - AUX Zone: Blank (AUX function is omitted on this control)
 - FLAME Zone: Blank

MANUAL ON MODE:

- Transmits flame ON command
- LCD Displays:
 - MODE Zone: ON is displayed
 - ROOM TEMP Zone: Measured temperature is displayed
 - SET TEMP Zone: Blank
 - LIGHT Zone: LIGHT and light setting level is displayed
 - FAN Zone: FAN and fan setting level is unused
 - TIME/PROG Zone: Current day indicator and current time is displayed
 - AUX Zone: Blank (AUX function is omitted on this control)
 - FLAME Zone: A&B Flame Icons and flame setting level numbers are displayed

THERMOSTAT Mode:

NOTE: THE FACTORY DEFAULT SETTING DISABLES THERMOSTAT MODE.

- Will cycle flame on and off based on room and set temperatures. Will transmit ON command if SET TEMP (+SWING) is higher than ROOM TEMP and will transmit OFF command if SET TEMP (-SWING) is lower than ROOM TEMP.
- Built-in thermostat will measure room temperature.
- All programming should be for deg. F and converted to deg. C when selected.
- Temperatures may be displayed in degrees F (factory default) or degrees C. Press the UP and DOWN Buttons simultaneously to change between degrees F and C.
- SET TEMP: While in THERMOSTAT mode, press the UP or DOWN Button to change the SET TEMP (45-90 deg. F, 7-32 deg. C); the new set temperature will automatically be accepted after 2 seconds. The factory default SET TEMP is 45 deg. F.
- SWING Temperature: This model does not allow for SWING temperature adjustment. This model utilizes thermostatic flame modulation that will modulation the main flame based on the difference between room temperature and set temperature:
 - o **Important** - factory SWING TEMPERATURE setting is 2 degrees. The thermostatic flame modulation feature will not allow this SWING to be changed.

EXAMPLE:	Set Temperature	Room Temp.	Flame Level
		74F	OFF
		73F	Level 1
	Set Temperature (72)	72F	Level 2
		71F	Level 3
		70F	Level 4
		69F	Level 5
		68F	Level 6
		67F	Level 7

- Manual Flame Adjustment while in THERMOSTAT mode: Flame-A will be the only flame setting that is adjusted automatically. Flame-A and Flame-B may be manually adjusted while in thermostat mode. If Flame-A is manually adjusted while in thermostat mode, it will override the automatic flame setting until the flame cycles off, then back ON thermostatically; when the flame cycles ON again, automatic flame adjustment will resume (Flame-B setting will remain as-set by the user). Automatic flame adjustment will also resume if the operational mode is cycled out of, then back into THERMOSTAT mode or if the SET temperature is changed.

THERMOSTAT OFF LCD Displays:

- o MODE Zone: THERMO and OFF is displayed
- o ROOM TEMP Zone: Measured temperature is displayed
- o SET TEMP Zone: SET TEMP is displayed
- o LIGHT Zone: LIGHT and light setting level is displayed
- o FAN Zone: Blank
- o TIME/PROG Zone: Current day indicator and current time is displayed
- o AUX Zone: Blank (AUX function is omitted on this control)
- o FLAME Zone: Blank

THERMOSTAT ON LCD Displays:

- o MODE Zone: THERMO and ON are displayed
- o ROOM TEMP Zone: Measured temperature is displayed
- o SET TEMP Zone: SET TEMP is displayed
- o LIGHT Zone: LIGHT and light setting level is displayed
- o FAN Zone: FAN and fan setting level is displayed
- o TIME/PROG Zone: Current day indicator and current time is displayed
- o AUX Zone: Blank (AUX function is omitted on this control)
- o FLAME Zone: A&B Flame Icons and flame setting level numbers are displayed

* Thermostat Disable/Enable Feature

- The Thermostat Mode (described above) may be enabled if desired, but is disabled for applications where a thermostat is not allowed or undesirable. **THE FACTORY DEFAULT IS DISABLED.**
- When Thermostat Mode is Disabled:
 - o The Modes of operation will cycle between MANUAL ON and MANUAL OFF (omitting THERMO).
 - o Program Operation (described below) is also disabled.
 - o The SET TEMP zone will be blank.
 - o The room temperature will still be measured & displayed in the ROOM TEMP Zone.

- o The TIME/PROG zone will continue to display the Clock and Day of week, but none of the icons associated with Program Mode will be displayed.

- To disable or re-enable the Thermostat, the transmitter must be in MANUAL OFF Mode, then press and hold the SET TEMP Zone and the DOWN Button simultaneously for 10-seconds. The LCD screen will go blank except either THERMO and OFF or THERMO and ON will flash 3-times (0.5-seconds OFF, 0.5-seconds ON) to indicate the change has been made

FLAME - A (OR MAIN) ADJUSTMENT

- Transmits a flame height setting command to the control module to adjust the Flame-A height.
- Available settings are 1-7 with a factory default of 7. If the Flame-A setting is changed during operation (either manually or automatically), the control will remember and use the adjusted setting on subsequent manual ON cycles (Flame-A setting memory).
- While in MANUAL ON, or PROGRAM ON modes, press the FLAME Zone to enter Flame-A Adjustment, then press the UP or DOWN buttons to raise and lower the flame; press the MODE/ SET Button or wait for 15 seconds to accept the new setting.
 - LCD Display: When setting the Flame-A height, the Flame-A icon, and Flame-A setting number will flash in the FLAME Zone.

LIGHT ADJUSTMENT

- Transmits a light setting command to the control module to adjust the light output level.
- Available settings are 0 (off) – 6 with a factory default of 0 (off).
- While in any mode of operation, press the LIGHT Zone to enter Light Adjustment, then press the UP or DOWN buttons to raise or lower the light output; press the MODE/SET Button or wait for 15 seconds to accept the new setting.
- LCD Displays:
 - When raising or lowering the light output level with the UP or DOWN buttons, the light icon and light setting number will flash in the LIGHT Zone.

CONTINUOUS PILOT OPERATION

- To activate or deactivate the Continuous Pilot Feature, press and hold the MODE/SET and UP Buttons simultaneously for 5 seconds.
- LCD Display: When activated, CONT. PILOT will be displayed in the MODE Zone.

CHILD-LOCK OPERATION

- Child-Lock operation prevents any user input to the transmitter. No mode of operation or feature may be adjusted when Child-Lock is activated. All automatic functions will continue normally.
- To activate or deactivate the Child-Lock feature, press and hold the MODE/ SET and DOWN Buttons simultaneously for 5 seconds.
- LCD Displays:
 - When activated, the LOCK icon will appear in the MODE Zone.
 - If any touch-zone or button is pressed when activated, the LCD backlight will illuminate and the LOCK icon will flash for 5 seconds in the MODE Zone.

SENSOR SAFETY OVERRIDE

- Will only operate if the control is in MANUAL OFF mode.
- Press and hold the FLAME Zone and the UP Button simultaneously activate the sensor safety override feature.
- The module will ignore any sensor faults, continually emit an igniter spark, and energize the PILOT operator output.
- When the buttons are released, the control will immediately return to MANUAL OFF mode.
- LCD Display:
 - When the Sensor Safety Override feature is activated, CONT. PILOT will flash on the LCD screen.

COMMUNICATION SAFETY

- In manual ON and program modes of operation, the transmitter will send a communication safety transmission every 15 - minutes. This signal is further processed by the ignition control module to verify the transmitter is communicating properly.