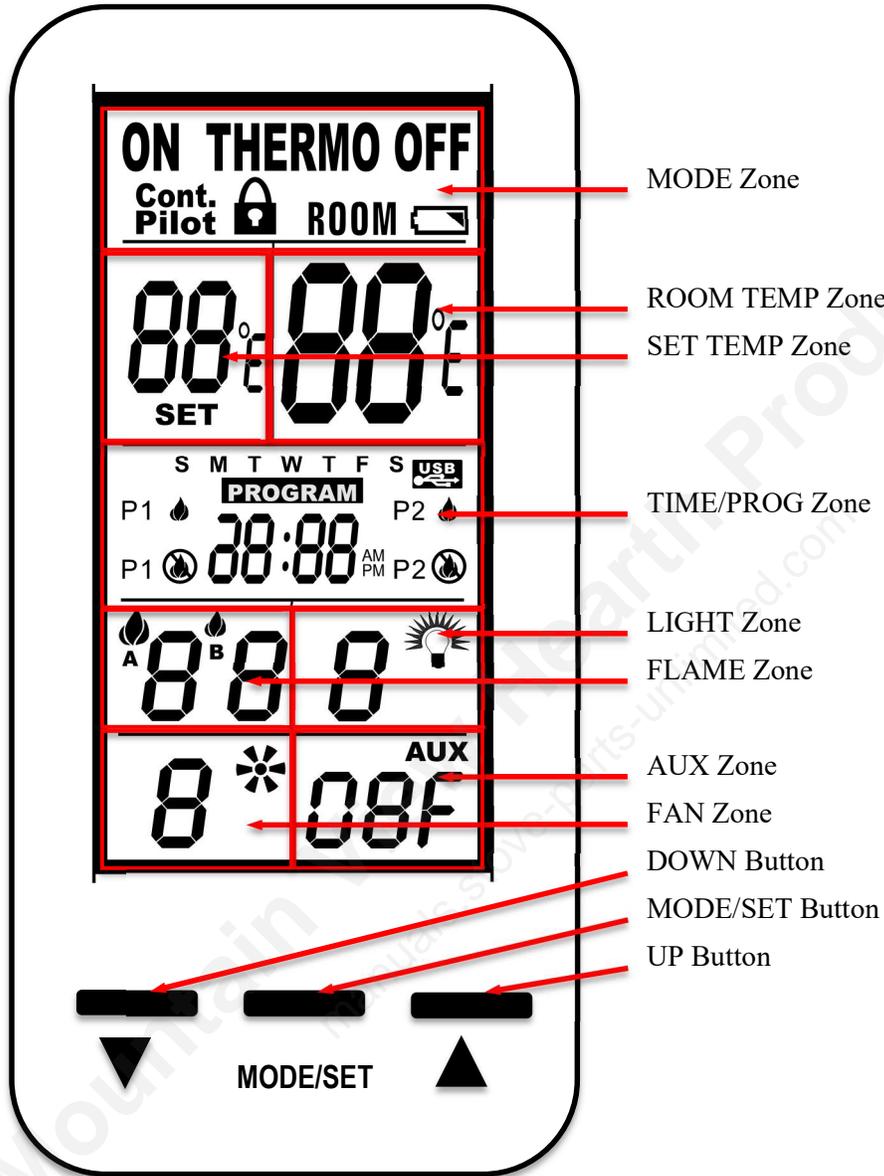


**Touch-Screen LCD and Button Layout (not-to-scale)**



## **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.*

### 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:

With the screen dark like below



Tap the screen so it lights up like below



- Press and hold the MODE Zone for 5 seconds to enter Day/Time Setup like below



The display should look like below



- 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
  - TIME/PROG Zone: Day of Week, or Time of Day will Flash

### Remote Pairing

To program the remote to the ignition control module:

Locate the learn rocker switch in the gas control compartment under the fireplace

Press and release the learn switch. 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.

### Modes of Operation

Operation modes:

- MANUAL OFF
- MANUAL ON
- THERMOSTAT (with optional PROGRAM Mode)

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.
- **Pilot Method: Intermittent Pilot Ignition (IPI)/Spark-to-Pilot only (continuous/standing pilot not allowed)**
  - Pilot flame will be turned OFF
- LCD Displays:
  - MODE Zone: OFF is displayed
  - ROOM TEMP Zone: Measured temperature is displayed
  - SET TEMP Zone: Blank
  - TIME/PROG Zone: Current day indicator and current time is displayed

#### MANUAL ON Mode:

- Transmits flame ON command
- **Pilot Method: Intermittent Pilot Ignition (IPI)/Spark-to-Pilot only (continuous/standing pilot not allowed)**
  - Pilot flame will be ignited before turn Main Flame ON.
- LCD Displays:
  - MODE Zone: ON is displayed
  - ROOM TEMP Zone: Measured temperature is displayed
  - SET TEMP Zone: Blank
  - TIME/PROG Zone: Current day indicator and current time is displayed
  - FLAME Zone: A Flame Icon and flame setting level number is displayed

#### 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 written 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 68 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 (see example below).
  - Important - factory SWING TEMPERATURE setting is 2 degrees. The thermostatic flame modulation feature will not allow this SWING to be changed.

#### EXAMPLE:

<u>Set Temperature</u>	<u>Room Temp.</u>	<u>Flame Level</u>
	74F	OFF
	73F	Level 1
Set Temperature (72) →	72F	Level 2
	71F (or less)	Level 3

- **Pilot Method: Continuous/Standing Pilot only (Intermittent Pilot Ignition (IPI)/Spark-to-Pilot not allowed).**
  - Pilot flame will remain ON when Main Flame Cycles ON and OFF.
- Manual Flame Adjustment 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. 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:
  - MODE Zone: THERMO and OFF is displayed
  - ROOM TEMP Zone: Measured temperature is displayed

- SET TEMP Zone: SET TEMP is displayed
- TIME/PROG Zone: Current day indicator and current time is displayed
- FLAME Zone: Blank
- THERMOSTAT ON LCD Displays:
  - MODE Zone: THERMO and ON are displayed
  - ROOM TEMP Zone: Measured temperature is displayed
  - SET TEMP Zone: SET TEMP is displayed
  - TIME/PROG Zone: Current day indicator and current time is displayed
  - FLAME Zone: A Flame Icon and flame setting level number is displayed

### Program Operation

- Press the TIME/PROG Zone to activate or deactivate Program Operation. Pressing the MODE Zone or the MODE/SET Button will also deactivate Program Operation. When Program Operation is deactivated, the transmitter will return to MANUAL OFF Mode.
- Program Operation will cycle fireplace ignition ON and OFF based on time settings (2 weekend periods and 2 weekday periods) and thermostat settings. Reference program operation for current production model 5301P for complete description of operation and factory defaults. Press the MODE/SET Button or wait for 15 seconds to advance to each subsequent program setting.
- **Pilot Method (same as Thermostat Mode): Continuous/Standing Pilot only (Intermittent Pilot Ignition (IPI)/Spark-to-Pilot not allowed).**
  - Pilot flame will remain ON when Main Flame Cycles ON and OFF.
- To enter Program Setup, press and hold the TIME/PROG Zone for 5 seconds.
- Program OFF LCD Displays:
  - MODE Zone: OFF
  - ROOM TEMP Zone: Measured temperature is displayed
  - SET TEMP Zone: Blank
  - TIME/PROG Zone: Current day indicator, current time, and Program status (P1-OFF or P2-OFF) is displayed
  - FLAME Zone: Blank
- Program ON LCD Displays:
  - MODE Zone: THERMO and either ON or OFF is displayed
  - ROOM TEMP Zone: Measured temperature is displayed
  - SET TEMP Zone: SET TEMP is displayed
  - TIME/PROG Zone: Current day indicator, current time, and Program status (P1-ON or P2-ON) is displayed
  - FLAME Zone:
    - If Thermostat is ON, A Flame Icon and flame setting level number is displayed.
    - If Thermostat is OFF, display is blank.

### Flame-A (or Main) Adjustment

- Transmits a flame height setting command to the control module to adjust the Flame-A height.
- Available settings are 1-3 with a factory default of 3. Refer to the THERMOSTAT Mode section for additional details on flame modulation in THERMOSTAT mode.
- While in MANUAL ON, THERMOSTAT 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.

#### 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 (thermostat, program, etc.) 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.

#### Room Temperature Limit

- The Room Temperature Limit Shutdown feature will operate in MANUAL ON, THERMOSTAT ON mode, and PROGRAM ON modes. If the room temperature reaches 95 deg. F or greater, the transmitter will automatically change to MANUAL OFF mode and send a MANUAL OFF command to the control module. If the user turns the control back ON and the room temperature is still 95F or greater, the transmitter will switch to back manual OFF and send another OFF command the next time the transmitter reads & updates the room temperature (2-minute update interval).

#### Remote CPI / IPI mode

Press and hold both the “Mode/Set” button and the “UP” arrow button for 5 sec.

### **Disabling / Re-enabling function zones**

To disable or re-enable a function, the transmitter must be in MANUAL OFF Mode. Then touch and hold the desired function zone (see 1<sup>st</sup> page) and the DOWN Button simultaneously for 10- seconds.

The LCD screen will go blank except either the zone function designation (for example “Thermo”) and OFF or the zone function designation and ON and this will flash 3-times (0.5-seconds OFF or 0.5-seconds ON) to indicate the change has been made.