TECHNICAL SPECIFICATION

Model: ReMotion TX

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

MODE Zone

ROOM TEMP Zone

SET TEMP Zone

TIME/PROG Zone

LIGHT Zone

FLAME Zone

AUX Zone

FAN Zone

DOWN Button

MODE/SET Button
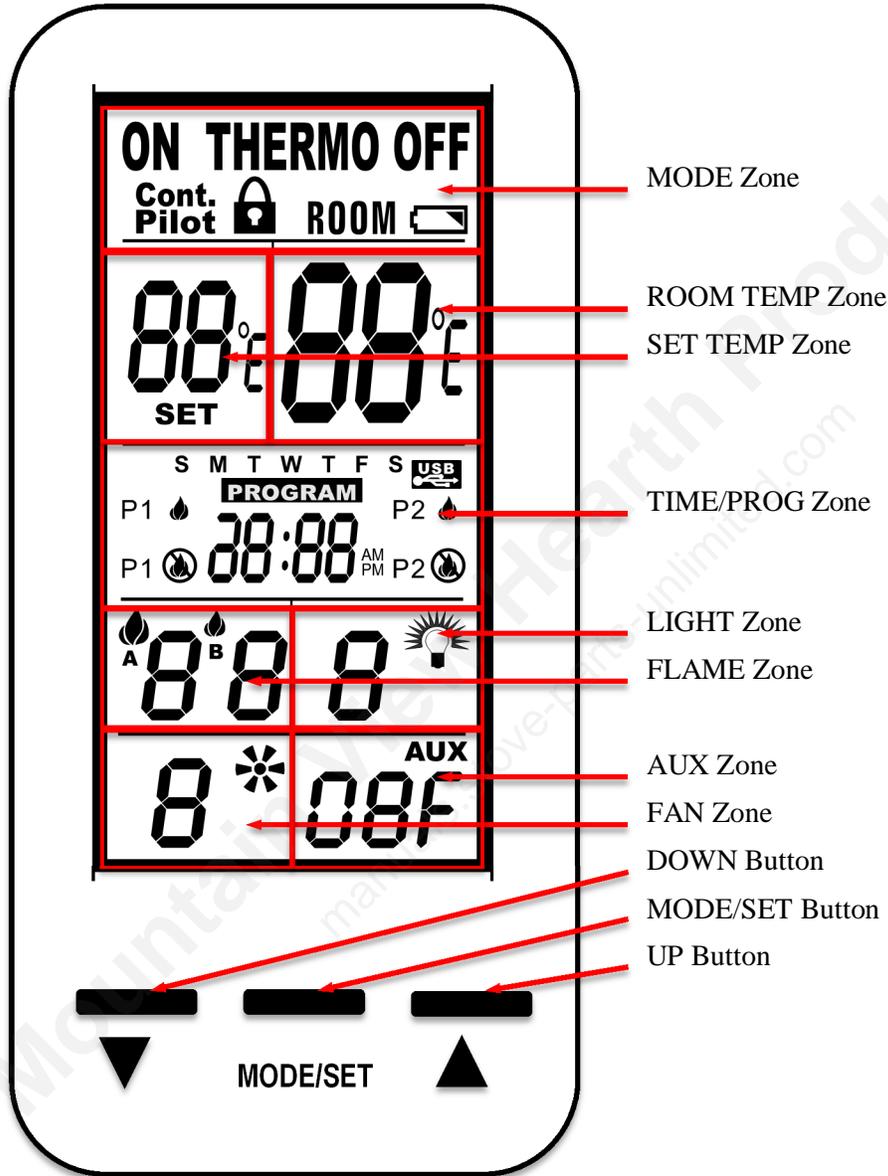
UP Button

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:
  - Press and hold the MODE Zone 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 ó when in Day/Time Setup:
    - MODE Zone: Blank
    - ROOM TEMP Zone: Blank
    - SET TEMP Zone: Bank
    - TIME/PROG Zone: Day of Week, or Time of Day will Flash

Pairing for fireplace (some logsets are different see next paragraph)

To program the module (make sure the system has power)
 Locate the learn button on left side or bottom of control module depending on the model
 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.

Pairing for some logset
- Put remote in the "ON" mode (ON will be displayed in the upper Left corner)
- To enter pairing mode press and hold the MODE/SET Button for 10-seconds.
- Transmitter will transmit a pairing signal for 20-seconds, then automatically exit pairing mode and return to normal operation.
- LCD Displays – When pairing mode is activated:
  - MODE Zone: Blank
  - ROOM TEMP Zone: The letters "On" will flash.
  - SET TEMP Zone: The letter "P" is displayed
  - TIME/PROG Zone: Blank

Receiver Operation Note: Once transmitter is in pairing mode, press the yellow pairing button on the receiver.*Channel Selection*

This control may be operated in 3 different sub-channels for applications where 2.4GHz interference causes delayed operation of the remote control. The factory default is Channel 3. To change the channel on the transmitter:
- Press the LIGHT and FAN zones simultaneously and hold for 5-seconds.
- The LCD screen will go blank except "Ch" will be displayed in the SET TEMP Zone and either "01", "02", or "03" will be displayed in the ROOM TEMP Zone.
- Press the UP or DOWN buttons to change the channel number (01-03).
- Press the MODE/SET Button to return to the normal operating display.

Receiver Operation Notes:
- The receiver manufacturer may refer to channels A (same as 01), B (same as 02), or C (same as 03).
- Receiver must be paired with transmitter in the receiver's factory default channel.
- Once paired, the channel selection may be changed in the transmitter per the instructions above.
- Once the channel selection is changed in the transmitter, the power supply to the receiver must be removed for at least 30-seconds, then re-applied.
- The receiver will recognize the new channel selection after about 30-seconds to 1-minute and normal operation will resume.

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:

Set Temperature	Room Temp.	Flame Level
	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

- o SET TEMP Zone: SET TEMP is displayed
- o TIME/PROG Zone: Current day indicator and current time is displayed
- 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 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).**
  - o 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:
  - o MODE Zone: OFF
  - o ROOM TEMP Zone: Measured temperature is displayed
  - o SET TEMP Zone: Blank
  - o TIME/PROG Zone: Current day indicator, current time, and Program status (P1-OFF or P2-OFF) is displayed
  - o FLAME Zone: Blank
- Program ON LCD Displays:
  - o MODE Zone: THERMO and either ON or OFF is displayed
  - o ROOM TEMP Zone: Measured temperature is displayed
  - o SET TEMP Zone: SET TEMP is displayed
  - o TIME/PROG Zone: Current day indicator, current time, and Program status (P1-ON or P2-ON) is displayed
  - o 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. <u>All automatic functions (thermostat, program, etc.) will continue normally.</u>
- 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 ôMode/Setö button and the ôUPö arrow button for 5 sec.