

TX581 Remote Electronic Ignition and Control System



OPERATING INSTRUCTIONS -FOR OEM USE ONLY



TX581

⚠ WARNING

Fire or explosion hazard. Attempted disassembly or repair of controls can cause property damage, severe injury or death. Do not disassemble the gas valve; it contains no serviceable components.

Read these instructions carefully. Failure to follow them could result in a fire or explosion causing property damage, personal injury, or loss of life. The product must be installed and operated according to all local regulations.

A. **BEFORE OPERATING** verify that no gas is in the area around the appliance, including near the floor.

WHAT TO DO IF YOU SMELL GAS:

- Do not light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call the gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach the gas supplier, call the fire department.
- B. 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, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- C. Do not use this control or any gas appliance if any part has been under water or in contact with water. Immediately call a qualified service technician to replace the control system and any gas control system which has been under water or in contact with water.
- D. These instructions are to be referenced as a user guide, and do not supersede appliance manufacturer's lighting instructions.

APPLICATION

TX581 is a battery-powered electronic remote ignition and control system for gas appliances with pilot burners and ODS systems.

GENERAL NOTES

Radio frequency Remote

434 MHz for Europe, US, Canada;

NOTE: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 in accordance with 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.

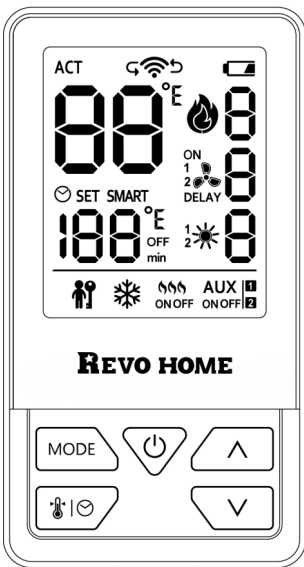
Batteries - Remote Handset:

3 x 1.5V "AAA" (quality alkaline recommended)

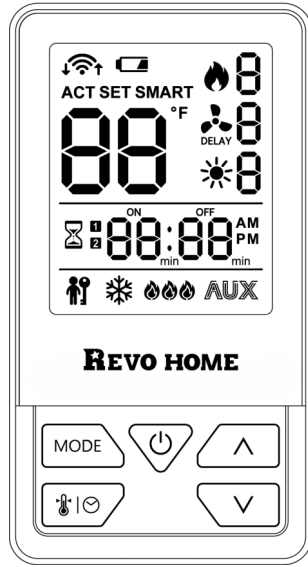
NOTE: These remote handsets, receiver, wall switches, are not interchangeable with previous versions.

For all lighting/ignition instructions please refer to appliance manufacturer's instructions.

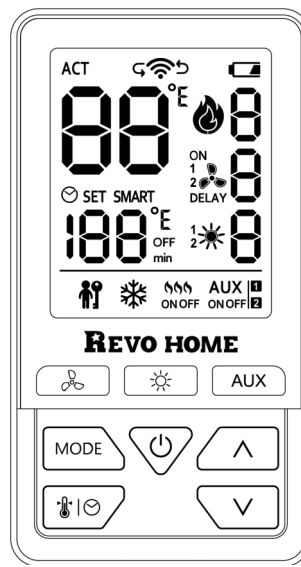
TX581 SERIES REMOTE HANDSET FEATURES



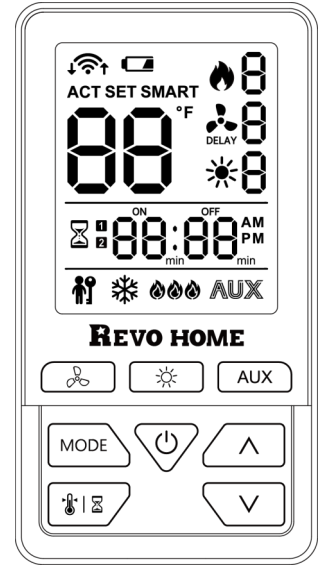
TX550



TX551



TX580



TX581

Remote Controller	434MHz Unidirectional	TX550	TX551	TX580	TX581
ON/ OFF		★	★	★	★
Childproof		★	★	★	★
Revo Home Compatible		★	★	★	★
Flame Height Adjustment		★	★	★	★
Standing Pilot*		★	★	★	★
LCD		★	★	★	★
Low Battery Indicator		★	★	★	★
Second Burner		★	★	★	★
Thermostat		★	★	★	★
Timer		★	★	★	★
Error Code Notification*		★	★	★	★
Fan Speed		★	★	★	★
Light Dimmer		★	★	★	★
AUX ON/ OFF		★	★	★	★
Fan Delay ON/ OFF		★	★	★	★
Clock			★		★
Daily Program Thermostat			★		★
3 Independent Access Keys				★	★

*Disabled for Europe

SYMBOL

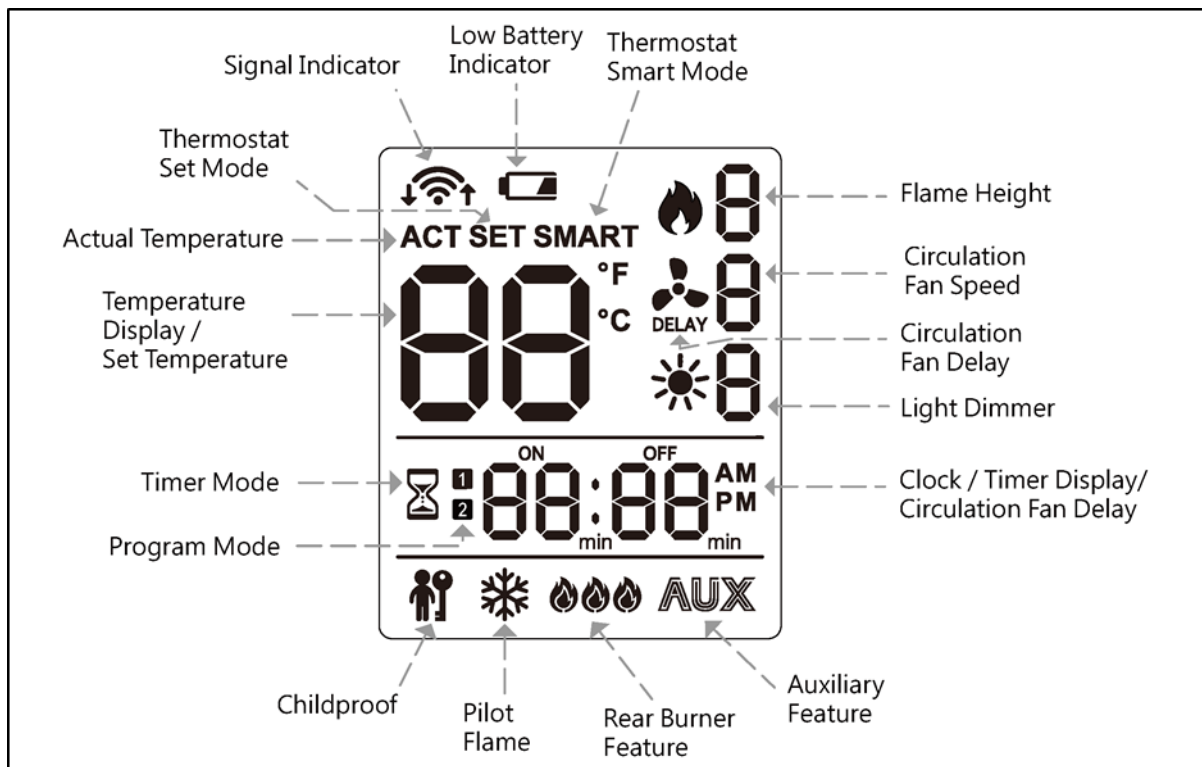
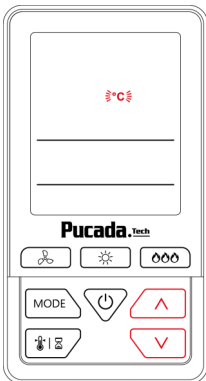


Figure 1: Symbol Display

SETTING TEMPERATURE UNIT



Install batteries into remote handset, while °C or °F is flashing, press or to choose Fahrenheit or Celsius and vice versa.

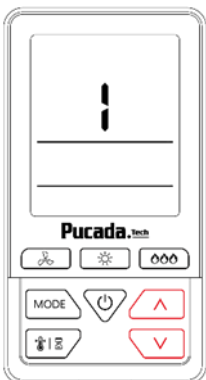
Idle 10 seconds or press to confirm.



12/24 Hour setting:
Press or to select 12:HR or 24:HR

Idle 10 seconds or press to confirm.

SETTING DAY AND TIME



Day setting:
Press or to select a number to corresponding with the day of the week (eg. 1= Monday, 2=Tuesday, 3=Wednesday, 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday).

Idle 10 seconds or press to confirm.



Press or to adjust Hour, Idle 10 seconds or press to confirm.

Press or to adjust minute, Idle 10 seconds or press to confirm.



After setting the time and temperature unit, actual temperature display on standby screen.

TURN OFF THE FIRE



Press button, the receiver confirms transmission with an acoustic signal.

NOTE: There is a 3 second delay before the next ignition is possible.

CHILDPROOF



ON:

To activate press and buttons simultaneously. indicated and the handset is rendered inoperable include the off function.

OFF:

To deactivate press and buttons simultaneously. disappears.

MODE OF OPERATION – CIRCULATION FAN



To Fan mode, press button to flashing.

- To increase fan speed press . Max fan speed is 3.
- To decrease fan speed press . Min fan speed is 0.

To setting fan delay ON or fan delay OFF mode, press and buttons simultaneously.

MANUAL MODE (HANDSET)

NOTICE

Wiring of valve and receiver must be completed before starting ignition. Failure to do so could damage the electronics.

WARNING

When pilot ignition is confirmed, main flame valve turn on to maximum flame height.



Press to setting fan delay ON time from 0 to 12 minutes. Fan will turn on depend on this delay time after success ignition. 0 minutes will instant turn on the circulation fan.

Press to setting fan delay OFF time from 0 to 12 minutes. Fan will turn off depend on this delay time after turn off the appliance. 0 minutes will instant turn off the circulation fan.

NOTE: Default is 12 minutes delay ON; 12 minutes delay OFF.

TURN ON THE FIRE



Press and hold button for 3 second, a symbol indicating transmission appears on the display. The receiver confirms transmission with an acoustic signal.

- Main burner and rear burner turn on once pilot ignition is confirmed.
- Main gas goes Max flame height first, and will goes last flame height memory.
- Handset automatically goes into Manual mode after main burner ignition.

MODE OF OPERATION – LIGHT



To Light mode, press button to flashing.

- To increase light dimmer press . Max light dimmer is 7.
- To decrease light dimmer press . Min light dimmer is 0.

NOTE: Default is .

FLAME HEIGHT ADJUSTMENT



To increase flame height press . Max flame height is 5.
To decrease flame height press . Min flame height is 1.

MODE OF OPERATION – REAR BURNER



To Rear Burner mode, press button to toggle ON or OFF.
 ON:
 OFF:

NOTE: Default is



While ambient temperature equal or lower than 10°C (50°F) will appear LO.

MODE OF OPERATION – AUX



To AUX mode, press button to toggle ON or OFF
 ON: **AUX**
 OFF: **AUX**

NOTE: Default is **AUX**



While ambient temperature equal or greater than 37°C(99°F) will appear HI.

Handset will transmit a shutdown signal to appliance.

CHANGING THE MODE OF THERMOSTAT

During the appliance flame on, briefly pressing the button changes the mode of thermostat in the following order:



NOTE: While pressing either button a symbol indicating transmission appears on the display. The receiver confirms transmission with an acoustic signal.

MODE OF OPERATION – TIMER MODE



In Timer mode, indicated. At the end of countdown time period, the fire turns off.

NOTE: Time period available to set from 15 minutes to 9 hours.

MODE OF THERMOSTAT – SET MODE

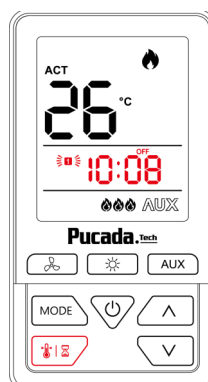


In Set mode, **SET** indicated. Room temperature is measured from handset and compared to the set temperature. The flame height modulated between last setting and off to achieve the set temperature.

press or to change set temperature.

NOTE: The default set temperature is 22°C (72°F). Set temperature range from 7°C (45°F) to 35°C (95°F).

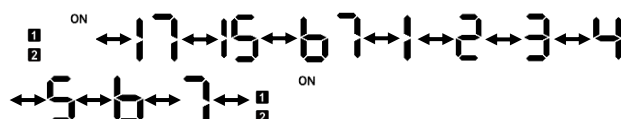
MODE OF OPERATION – PROGRAM MODE



In program mode, indicated. Appliance thermostat according to set temperature and period between ON time and OFF time.

Press and hold to enter settings.

Briefly pressing or button to changes the mode of thermostat in the following order:



2 ^{ON} = Set Temp while ON	
17 = Monday to Sunday	3 = Wednesday
15 = Monday to Friday	4 = Thursday
67 = Saturday to Sunday	5 = Friday
1 = Monday	6 = Saturday
2 = Tuesday	7 = Sunday



Briefly pressing or to **2** ^{ON} can check ON Temp default is 22°C (72°F).

Press to enter ON Temp setting, pressing or to change the temperature, press or idle for 10 sec to save and exit to next setting.



Except **2** ^{ON}, press to enter ON time and OFF time setting, to change the time, press , then press or to change the hour, press or idle for 10 sec to enter minute setting. Press or to change the minute, press or idle for 10 sec save and exit to next setting.

Setting follow the sequence of :
1 ON → **1** OFF → **2** ON → **2** OFF

While complete all settings, Idle for 10 sec to save and exit to program mode.

- Default settings:
 Program 1 : **1** ON : 23:45 **1** OFF: 23:45
 Program 2 : **2** ON : 23:45 **2** OFF: 23:45
 - Two ON times can be programmed per day
 - The ON/OFF times have to be programmed in the order
1 ON ≤ **1** OFF < **2** ON ≤ **2** OFF
 - If **1** ON = **1** OFF or **2** ON = **2** OFF the timer is deactivated.
- To have the fire overnight, it can be set: **2** OFF 23:50 and **1** ON 0:00

NOTE: Only one set temperature memory for **SET** and **2**, the flame height always default to its last setting.

OFF MODE AVAILABLE FUNCTIONS

While appliance remain off, briefly pressing the , , button changes the mode of operation.

NOTE: While pressing either button a symbol indicating transmission appears on the display. The receiver confirms transmission with an acoustic signal.

OFF MODE – CIRCULATION FAN



To Fan mode, press button to flashing

In fan delay off countdown process, can press to switch off the fan.

If fan is off, unable switch on, unless switch on the appliance.

OFF MODE – LIGHT



To Light mode, press button to flashing

- To increase light dimmer press . Max light dimmer is 7.
- To decrease light dimmer press . Min light dimmer is 0.

OFF MODE – AUX



To AUX mode, press button to toggle ON or OFF
 ON: **AUX**
 OFF: **AUX**

SLEEP MODE



While handset is idle for 1 minutes, it will turn into sleep mode.

Clock will remain working, and display ambient temperature.

Except , , , all buttons can awake handset from sleep mode.

MISCELLANEOUS


Low Battery Indication

Handset: Low battery indicator  indicated.

Battery replacement

Battery replacement is recommended at the beginning of each heating season. Do not use metal tools to remove batteries. Using a metal tool could cause a short that may damage the receiver.

Factory reset

Remove battery, press and hold  and install battery, backlight flash rapidly 3 times represent factory reset complete.

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