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**ESTONE TECHNOLOGY TempoFlex Steam Shower Control User Manual** 



#### Introduction

## Welcome to your TempoFlex Control.

This product is primarily designed for sauna room control systems, consisting of a TempoFlex control panel and a Dongle. The Dongle connects to the steam generator, while the TempoFlex control panel wirelessly transmits control signals to the Dongle to operate the steam generator.

To ensure the optimal performance of this product, please take the time to read this manual carefully.

# **Exploring Your Device**

#### **Package Contents**

In addition to the TempoFlx, your product carton should contain all of the below items. If any items are missing or appear damaged, please inform your dealer immediate.

TempoFlex Packing Contents		
AC Adapter		
Documents	Packing Lists, etc	

# **Device Layout**

# **Front View**





Item	Component	Description
Ç	Power Key	In Power-on mode, short-press (1s) the Power button to activate the steam generator, displaying the current t emperature (default: 110°F on initial startup). Short-pre ss the Power button again to turn off the steam generat or.
4	User Presets	In Power-on mode, single short-press the User Presets button to switch to Pr1, double short-press the User Presets button to switch to Pr2. While powered on, select Pr1 or Pr2 to set the desired temperature and time, settings are automatically saved after configuration. Short press User Presets button to toggle between Pr1 and Pr2 for real-time monitoring.
8	Temperature	Short-press the Temperature button to enter the temperature setting interface, displaying the currently s et temperature value. Short-press again to exit the tem perature setting interface. Default temperature display: 110°F. Adjust temperature using the Left/Right keys: A djustable range: 80°F–120°F (or 80°F–130°F) Increment: ±1°F per press Celsius range: 26.5°C–49°C Increment: ±0.5°C per press

(L)	Duration time	Short-press the Duration Time button to enter the stea m duration setting interface, displaying the currently set time value. Short-press again to exit the time setting int erface. Adjust duration using the Left/Right keys: Settin g range: 2–60 minutes Increment: ±2 minutes per press
•	Chroma	When Chroma is off, Short-press the Chroma button to: Send an ON command to the Dongle Turn on the Chro ma light (LED indicator illuminates) Short-press the Chr oma button again to: Send an OFF command to the Do ngle Cycle through Chroma light colors sequentially Lo ng-press to turn off both Chroma light and LED indicato r. For battery longevity, LED indicator remains ON only when the display is active. Chroma light operates indep endently: Maintains on/off state regardless of steam ge nerator status.
•	Aroma	When the steam generator is ON and Aroma is OFF, sh ort-press Aroma button: Sends ON command to Dongl e Activates Aroma light When Aroma is ON, short-pres s Aroma button: Sends OFF command to Dongle Deactivates Aroma light Aroma system automatically s huts off when the steam generator stops heating. For b attery longevity, LED indicator remains ON only when t he display is active.
<	Left Key	In temperature/time setting mode: Short-press the Left Key to decrease value by the specified step increment; Long-press (2s) the Left Key to rapidly decrease value (continuous at step rate)



## Right Key

In temperature/time setting mode: Short-press the Righ t Key to increase value by the specified step increment; Long-press (2s) the Right Key to rapidly increase value (continuous at step rate)

#### Note:

CO indicates communication fault between TX module and steam generator.

Err P indicates pairing error between devices.

Prr1 indicates over-temperature warning. Threshold: 125°F–137°F (51.67°C–58.33°C)

Prr2 indicates out-of-range temperature alert: Below 32°F (0°C) or Above 137°F (58.33°C)

Err1 indicates Steam generator power supply error: Voltage <18V AC, green LED on generator board turns OFF.

H2O indicates Low water level alert in steam generator.

#### **Rear View**



Item	Component	Description
1	DC Jack	For connection to TempoFlex

## **Pairing**

#### **Initial Pairing:**

Power on the TempoFlex to enter pairing mode.

Dongle LED will glow white for 1 minute.

Long-press the User Presets button to start pairing.

Screen displays "P" (pairing in progress).

On success, screen shows "OFF" state.

Press the Power button to activate the steam generator.

Successful pairing confirmation: Dongle's green LED stays solid ON.

#### **Auto-Reconnection:**

After successful pairing between TempoFlex PANEL and Dongle:

If power-cycled (off & on), TempoFlex Panel must automatically reconnect to the Dongle.

Disconnection State:

If TempoFlex PANEL and Dongle lose connection:

Dongle's green LED remains solid ON (indicates standby for reconnection).

## **Unpairing Process:**

If TempoFlex PANEL and Dongle are paired:

Long-press User Presets, screen shows "P".

After 1 minute, the pairing is terminated (Dongle disconnects).

**Note:** Do not power-cycle the Dongle during this process.

#### **Reset Button**

Long-press (5 seconds) the Reset button to force MCU reboot.

#### **Device LED**

Both Chroma and Aroma units feature a LED indicator to display button activation status.



# **Power System**

# **Main Battery**

• Battery Capacity: 3200mAh 3.7V (1S1P Configuration)

- Battery Life:
  - Supports ≥6 months of usage (based on 20 mins steam/day)

Max Operating Current: ≤50mA

## • Charging Method:

- In-device charging (no battery removal required)
- Charge via DC port on the main unit

## Low Battery Alerts:

- 4V: Displays "LO" (hollow battery icon)
- 3.2V: Auto-shutdown (safety cutoff)
- Charging Time: ≤3.5 hours (0% to 100%)
- Battery Icon Display Rule: Appears when battery level ≤ 2 bars
- Charging Indicator: Battery icon visible during charging
- Full Charge Behavior: Battery icon disappears when fully charged
- Charging Animation: Dynamic display: Cycles from 1st → 5th bar sequentially

## **Power Management**

## **Sleep Mode Activation:**

If the control panel receives no input for 10 seconds while the steam generator is ON: Display turns OFF; Chroma & Aroma LEDs blink alternately (indicates active steam control).

## Wake-Up from Sleep Mode:

Press any key for 1 second to wake up control panel, display turns ON

#### **Wireless Communication**

Supports US frequency 915MHz and European frequency 868MHz.

#### **Product Care**

## **Temperature & Humidity**

#### **General Use – Operating temperature**

The recommended range for temperature and the humidity value for the device is as follows:

- Operation temperature: 0°C to 60°C (The battery supports normal charging within temperature range of 0°C to 45°C.)
- Relative humidity: 0% to 100%

#### **Transportation and Storage**

For transportation and storage, the recommended range for temperature and the humidity value for the

device is as follows:

• Temperature: -20°C to 65°C

• Relative humidity: 10% to 90% (no condensation on the device)

## **Transporting the TempoFlex Device**

Disconnect all the cables from the TempoFlex while carrying the device.

When you transport the device for any reason, use the original casing and packaging materials. It is recommended to keep the original packaging materials for the TempoFlex. If the device needs to be returned to Device Manufacturer for Warranty related issues or repair, it is beneficial that the original packaging or equivalent is used for shipping. Most shipping carriers require at least 2 inches of packing material around the device.

# **Durability**

#### Water & dust Resistance: IP67

Drop Test: The packaging passes a 1-meter drop test with 10 total impacts (covering 1 corner, 3 edges,

and 6 faces) on a steel plate surface to validate durability per ISTA/ASTM standards.

# Safety

The device contains no user serviceable parts. Do not open the case of the TempoFlex. Doing so will void

the product warranty and may expose you to electrical hazards.

Using an antivirus program is strongly recommended. Software other than that which is pre-installed on the TempoFlex is installed at the user's own risk. External software could cause the TempoFlex to malfunction and might not be covered by the warranty. Any use of the TempoFlex outside the intended use and together with any third-party software or hardware that changes the intended use voids the responsibility of the device manufacturer.

IC warning:

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

1. This device may not cause interference,

2. This device must accept any interference, including interference that may cause

undesired operation of the device.

The device has been evaluated to meet general RF exposure requirement.

The device can be used in portable exposure condition without restriction.

**Trouble Shooting** 

In most cases, restarting your device will cure any problem. If this does not fix the

problem, contact your

supplier. Please have your serial number ready. This can be found on the back of your

device.

You are recommended to check your device at a year basis for better performance. You

may contact us

for assistance.

**Contact US** 

Factory Name: Estone Technology LTD

Address:2F, Building No.1, Jia'an Industrial Park, No.2 Long Chang Road, Bao'an,

Shenzhen 518101, China.

Maintenance

Cleaning the device

Before cleaning the device, shut it down and unplug all cables. Use a soft, slightly damp

lint-free cloth. Avoid getting moisture in openings on the device. Don't use window

cleaners, household cleaners, aerosol sprays, solvents, alcohol, or abrasives to clean

the device.

Disposing of the Device

Do not dispose of the device in general household or office waste. Follow your local

regulations for the disposal of electrical and electronic equipment

# **Appendix A Compliance Information**

#### **B1 FCC Statement**

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.
- 2. this device must accept any interference received, including interference that may cause undesired operation.

#### Part 15B 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

Any changes or modifications not expressly approved by the manufacturer could void the user's

authority to operate the equipment. Modifications not expressly approved by Device Manufacturer

could void the user's authority to operate the equipment under FCC rules.

#### **FCC RF Radiation Exposure Statement:**

- This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device was tested for typical hand-held operations with the device contacted directly to the human body to the sides of the de-vice. To maintain compliance with FCC RF exposure compliance requirements, avoid direct contact to the transmitting antenna during transmitting. This equipment complies with FCC/IC/EU RF radiation exposure limits set forth for an uncontrolled environment.

#### **B2 CE Statement**

This equipment complies with the requirements relating to electromagnetic compatibility, the essential protection requirement of Electromagnetic Compatibility (EMC) Directive 2014/30/EU on the approximation of the laws of the Member States relating to electromagnetic compatibility and Radio Equipment Directive (RED) 2014/53/EU to meet the regulation of the radio equipment and telecommunications terminal equipment.

#### **B3 Directives and Standards**

The TempoFlex complies with the following directives:

- Low voltage Directive 2014/35/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU
- Radio Equipment Directive (RED) 2014/53/EU
- RoHS2 Directive 2011/65/EU
- WEEE Directive 2012/19/EU
- Reach Directive 2006/121/EC, 1907/2006/EC Annex 17
- Batteries Directive 2013/56/EU

The device has been tested to comply with FCC and other relevant standards for the intended markets.

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# **Documents / Resources**



ESTONE TECHNOLOGY TempoFlex Steam Shower Control [pdf] User M anual

2A5N4-TEMPO, 2A5N4TEMPO, TempoFlex Steam Shower Control, TempoFlex, Steam Shower Control, Shower Control, Control

#### References

User Manual

- **ESTONE TECHNOLOGY**
- 2A5N4-TEMPO, 2A5N4TEMPO, control, ESTONE TECHNOLOGY, Shower Control, Steam Shower Control, TempoFlex,

TempoFlex Steam Shower Control

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