User's Manual
TempoFlex

Version 1.0

05/2025

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1. 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.

2. 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 immediately.

TempoFlex Packing Contents	
AC Adapter	
Documents	Packing Lists, etc..

3. Device Layout

Item	Component	Description
	Power Key	In Power-on mode, short-press (1s) the Power button to activate the steam generator, displaying the current temperature (default: 110°F on initial startup). Short-press the Power button again to turn off the steam generator.
	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.
	Temperature	Short-press the Temperature button to enter the temperature setting interface, displaying the currently set temperature value. Short-press again to exit the temperature setting interface. Default temperature display: **110°F**. Adjust temperature using the Left/Right keys: **Adjustable 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
	Duration time	Short-press the Duration Time button to enter the steam duration setting interface, displaying the currently set time value. Short-press again to exit the time setting interface. Adjust duration using the Left/Right keys: **Setting 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 Chroma light (LED indicator illuminates) Short-press the Chroma button again to: Send an OFF command to the Dongle Cycle through Chroma light colors sequentially Long-press to turn off both Chroma light and LED indicator. For battery longevity, LED indicator remains ON only when the display is active. Chroma light operates independently: Maintains on/off state regardless of steam generator status.
	Aroma	When the steam generator is ON and Aroma is OFF, short-press Aroma button: Sends ON command to Dongle Activates Aroma light When Aroma is ON, short-press Aroma button: Sends OFF command to Dongle Deactivates Aroma light Aroma system automatically shuts off when the steam generator stops heating. For battery longevity, LED indicator remains ON only when the 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 Right 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
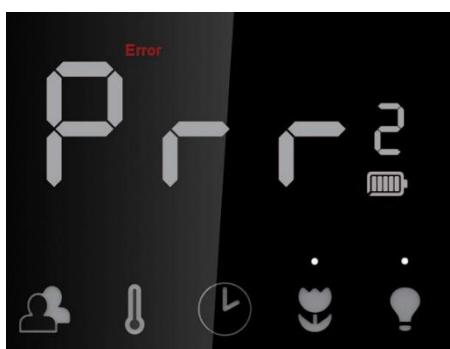
Both Chroma and Aroma units feature a LED indicator to display button activation status.

4. 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:**

  - **3.4V:** 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.

5. Wireless Communication

Supports US frequency 915MHz and European frequency 868MHz.

6. 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℃ to 60℃ (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℃ to 65℃
- Relative humidity: 10% to 90% (no condensation on the device)

Transporting theTempoFlex 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.

7. 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.

8. 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, and (2)

This device must accept any interference, including interference that may cause undesired operation of

the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR

d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts

de licence. L'exploitation est autorisée aux deux conditions suivantes :

1) L'appareil ne doit pas produire de brouillage;

2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible
d'en

compromettre le fonctionnement.

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

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

le dispositif a été évalué à satisfaire l'exigence générale de l'exposition aux rf.

l'appareil peut être utilisé dans des conditions d'exposition portatif sans restriction.

9. 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.

11. 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.

12. Maintenance

<u>Cleaning the device</u>

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.

<u>Disposing of the Device</u>

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 and (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.