TB Future T30

Controller

OTA FIBERGLASS

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TB Future T30
Smart Temperature Controller

TB FUTURE T30 temperature controller is a smart control unit specially developed for industrial electric heating blankets. TB FutureT30 collects the temperature, adjusts the signal of the sensor in the heating blanket and converts it into a digital signal to provide users with the current value and change process of various parameters on site in real-time, controlling various functions of the heating blanket temperature.

Efficient, programmable control box unit with user friendly and safety features and a super-durable robust build for rigid conditions

1. Features

- Programmable heat stages set by timer
- Including auto-timed shutoff
- Anti-tamper setting
- Ramp up temperature to last setting (or 123°C) on turn on
- Sound alarm on turn on and first heat

- Sound alarm warnings in over-temperature / higher than normal setting
- Easy to operate buttons that can be used while in gloves.
- Rigid military grade black box controller with clear white surface display
- Power on neon light safety indicator
- Easy user interface beginner-friendly design
- 3m UL cold (insulated) power plug

2. Controller Parameters

Power On Indicator	Yes
Maximum temp	300°C
Maximum Power Rating	7000W
Sound Alarm	At different stages
Auto Timed Shutoff	Yes
Anti-Taper Setting	Yes
Temperature Ramp	Yes
Constant temp button	Yes
Weight	0.2 Kg
IP Rating	IP65

3. Dual Sensor Units

Dual Sensor Controllers feature double displays,

While the first sensor sets the temperature, the second sensor measures real-time temperature predicting the power needed to set the unit to the target temperature in real-time. It also acts as backup second sensor prolonging the unit's life.

4. Safety Protections

• Over-temperature shut-off thermal protection fail-safe cuts off power when the temperature control system fails.

• Over-voltage shut-off. System automatically cuts off to protect the 220V thermostat and heating product when accidentally connected to 380V power supply.

• Safety Alarms: Audible settings and safety alarms warn users when unit starts heating, exceeds temperature threshold or approaches timer set time

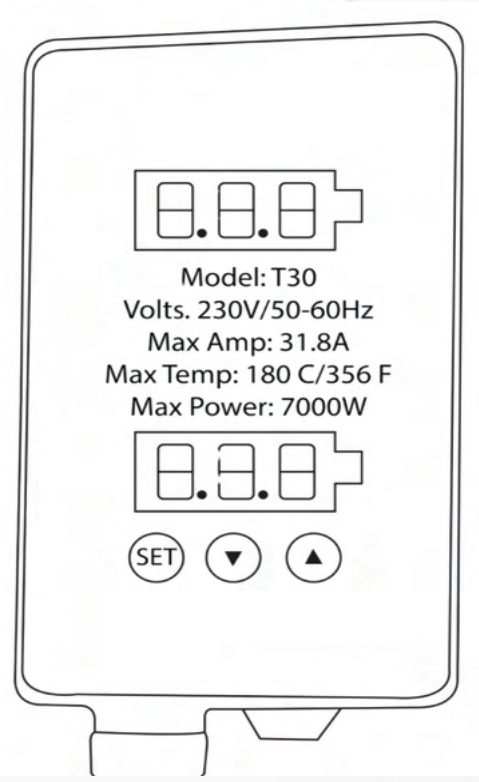
5. Technical Data

Classification: Non-Hazardous
Sensor fault E1 Digital display
IP Rating IP65
Compatible with TB Future Heating Solutions

6. Performance indicators

Dimensions: 156*88*63mm
Power supply voltage: AC220V (±15%, 50Hz)
Power consumption: 3W
Power rating: 7000W
Environmental temperature: 0~50″
Relative humidity: less than 85% in non-corrosive gas environment
Input signal: PT-100 thermistor
Display range: 0~200″
Resolution: 1″

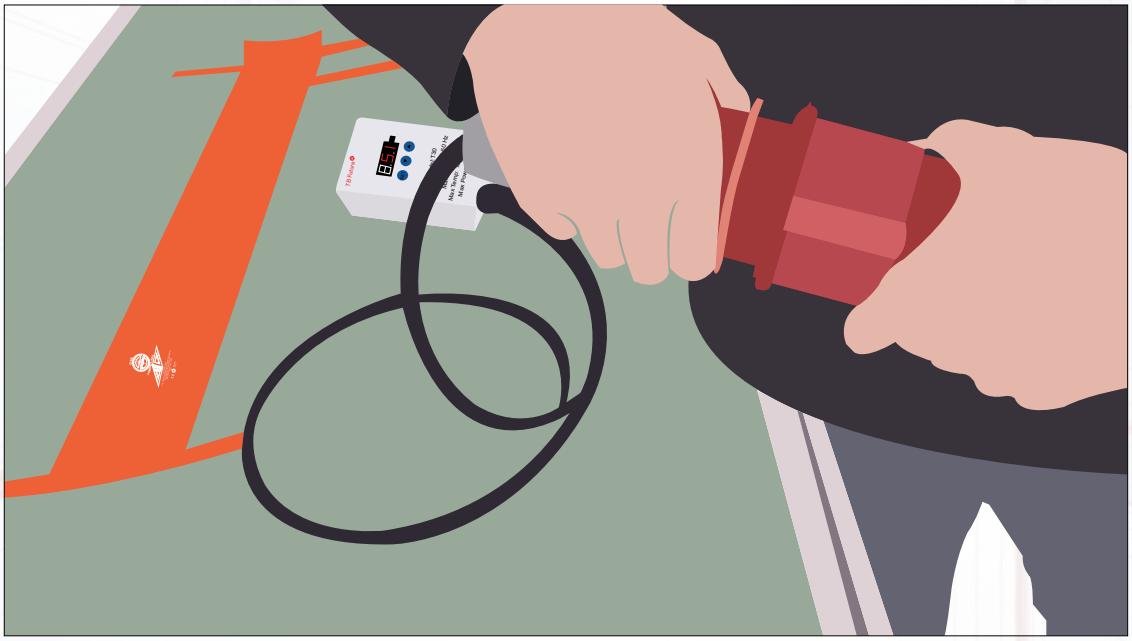
Function key: SET used to select the window page and set different attribute values
Add key: ▲ Used to set the heating threshold
Reduce key : ▼ Used to set the heating threshold



7. Instrument surface panel description

1. PV/SV: Measurement/value display window
2. OUT: Output display lamp
3. SET: Set button
4. DOWN: Data reduction key
5. UP: Data increment key

8. T30 Thermostat Settings Guide



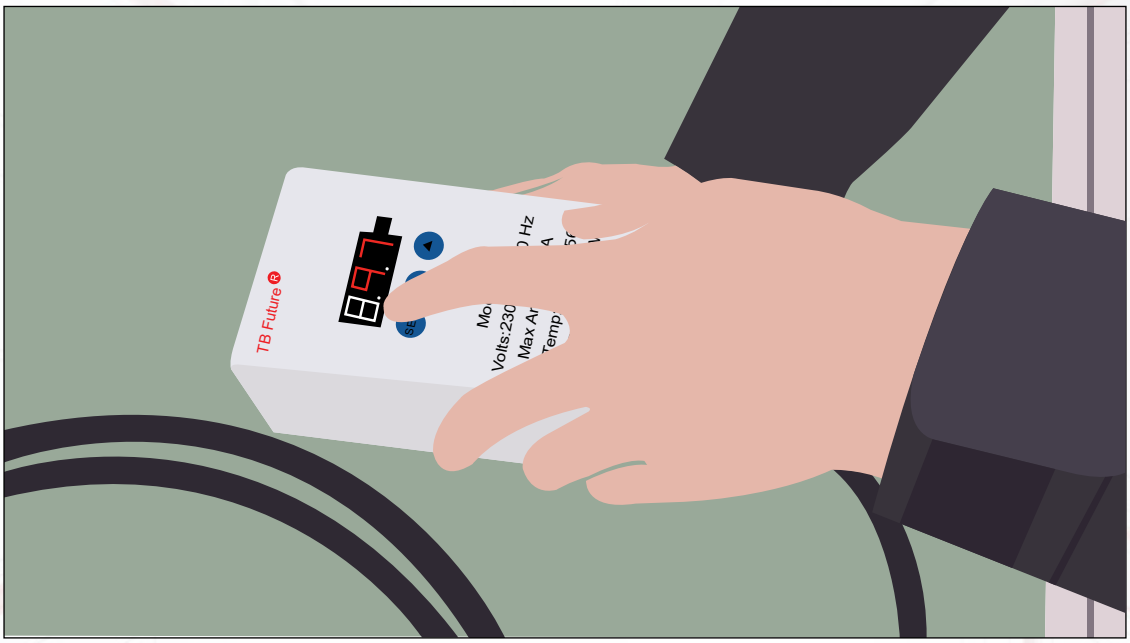
Check video For Step By Step Temperature & Timer Settings Listed Below

1. Plug connection through twist-lock

In Video

0:00~0:23

The plug consists of a male and a female part. Align the protruding key and press firmly, then fasten to ensure a tight connection



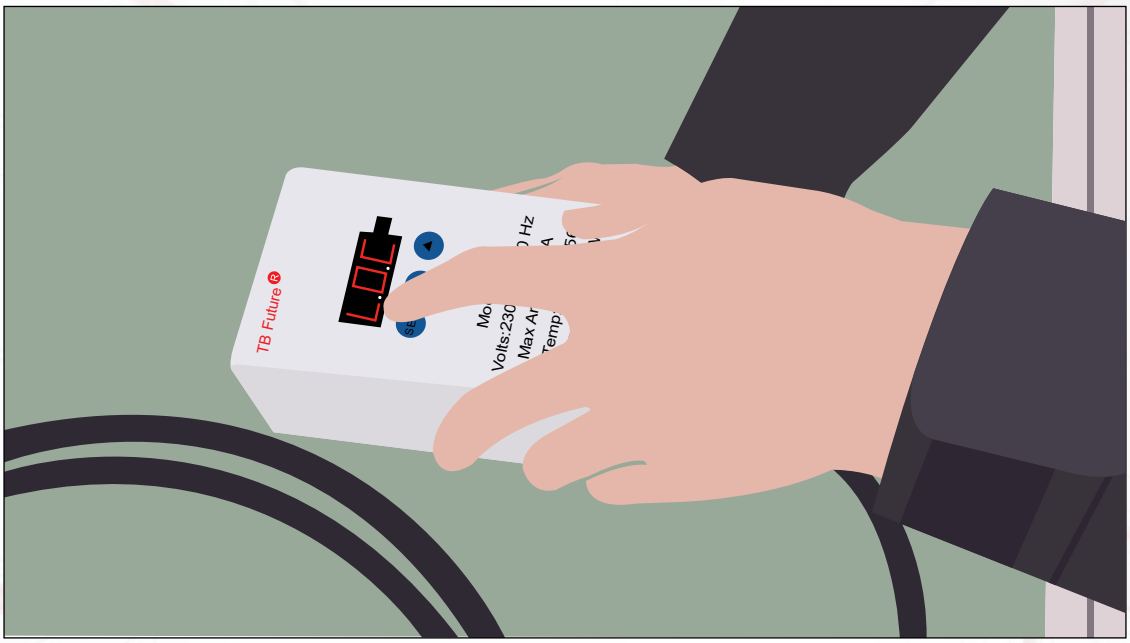
2. View Initial state

In Video

0:25~0:26

When the plug is connected and powered on, the temperature displayed on the temperature control screen shows the original temperature of the heating element.

Access Parameter Adjustment Settings

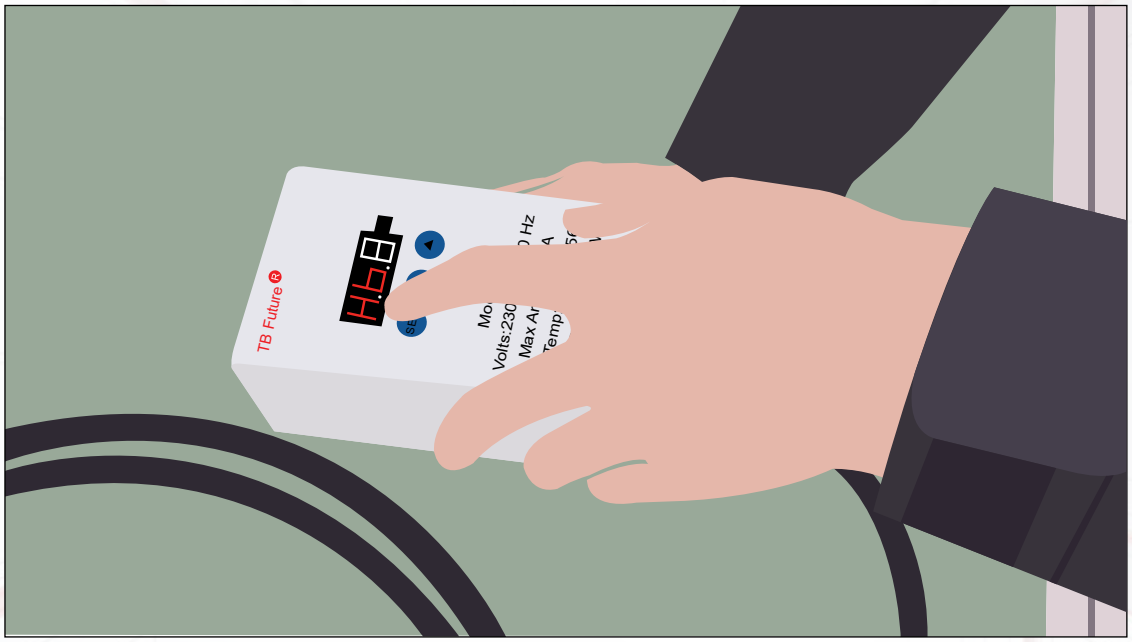


1. Enter password settings

In Video

0.30~0:33

Press and hold the SET key for 3 seconds to display LOC and enter the password interface (display 18)



2. Timer settings

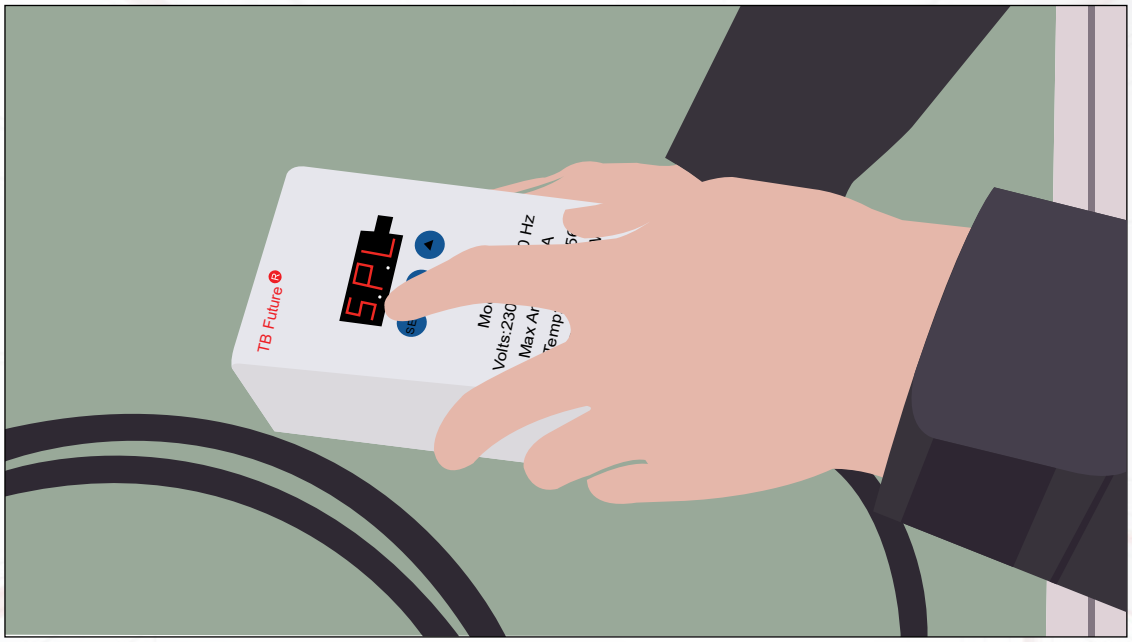
In Video

0:36~00:52

Press and hold the SET key to enter timer mode (display Hb).

Use the ▲ ▼ up/down keys to adjust the time in hours (e.g., set 5, 4, 3 hours, etc.).

Press SET to confirm the timer settings.



3. Set the lower temperature limit

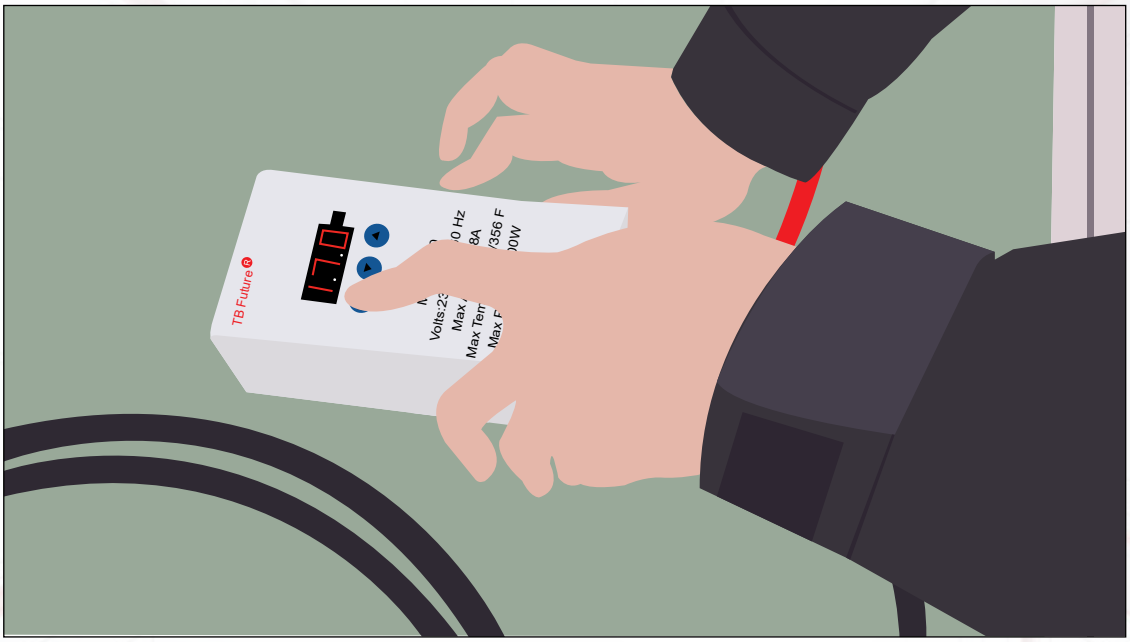
In Video

0:53~1:12

Press and hold the SET key unit SPL (Temperature Limit Function) appears.

It is suggested that the range of the lower and upper limits of temperature be set to be smaller in order to improve the temperature control accuracy.

Use the ▲ ▼ up/down keys to set the lower limit temperature value, then press the SET key to confirm.



4. Set the upper temperature limit

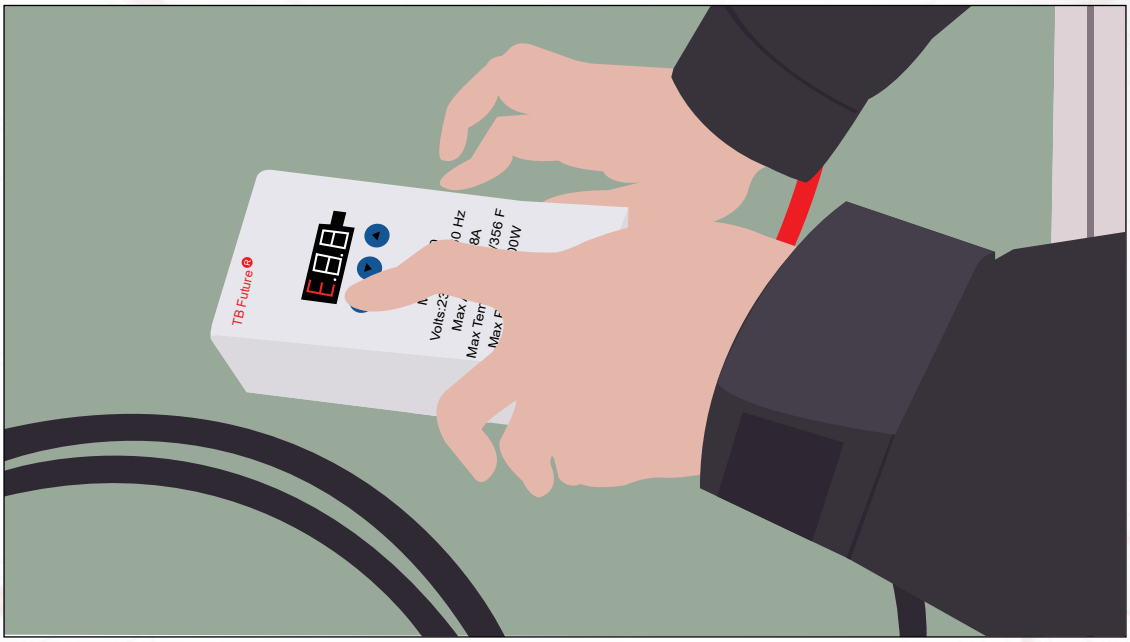
In Video

1.13~1:26

Press and hold the SET key unit "SPH" appears (temperature limit function).

Set the upper temperature limit (higher than the lower limit) and press SET to confirm.

Note: The upper and lower temperature limits are set based on the target heating temperature of the heating blanket or the end user's desired temperature. For example, if the target temperature is 110°C-120°C, the lower limit can be set at 110°C, and the upper limit can be set at 120°C.



5. Exit parameter adjustment settings

In Video

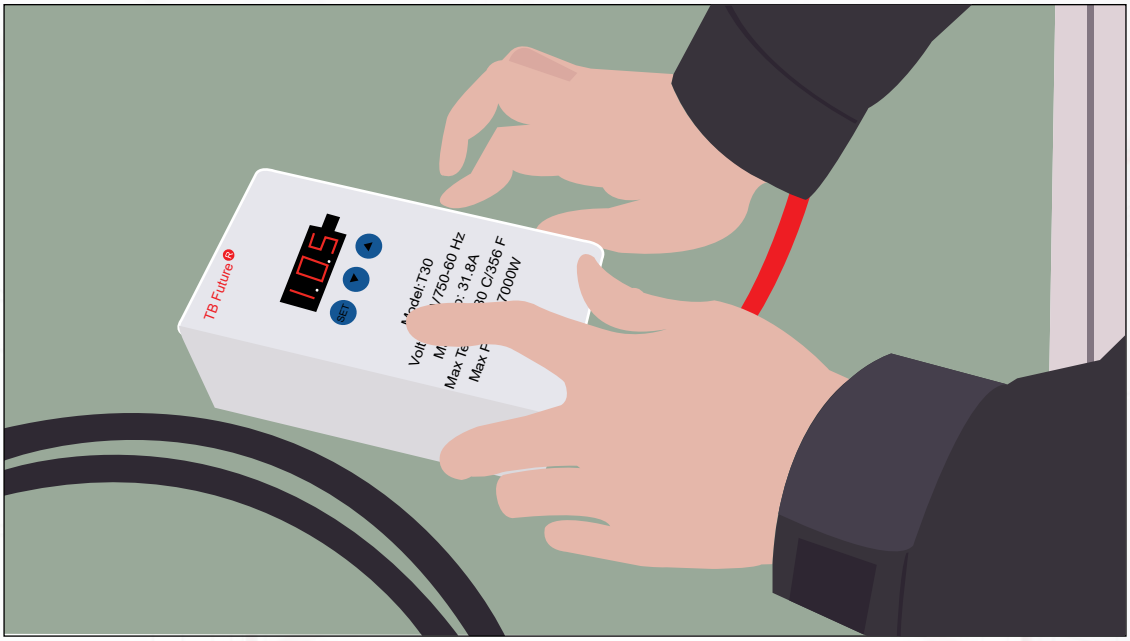
1.27~1:30

Press and hold the SET key to exit the parameter setting mode. When the displayed value stops blinking, the timer and temperature limits are set. The current value on the screen shows the heating element's temperature.

6. Set the heating target temperature

In Video

1:31~1:46



Press ▲ and ▼ hold the up or down button to set the target heating temperature.

Note: The heating temperature must be between the set lower and upper limits.

After setting, the device will automatically save and reset (if turned off/on) without pressing the button (pressing the button does not affect the process).
This also sets the tamper-lock function.

Key Considerations

The recommended range for the lower temperature limit (SPL) and upper temperature limit (SPH) should not be set too wide; a narrower range ensures more precise temperature control.

The target heating temperature must not exceed the upper or lower limit range, otherwise it may not work.

If you encounter any issues during operation, press and hold the SET thermostat to refresh the original temperature, or restart the device.

Powered by TB Future T30

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