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Model: PT02T

INTRODUCTION

The REPTITRIP PT02T 2-in-1 Reptile Dimming Thermostat is designed to provide precise and reliable temperature and lighting control for reptile enclosures. This device features two independent sockets: one for timer-controlled devices and another for PID (Proportional-Integral-Derivative) dimming temperature control. It helps maintain a stable and appropriate environment for your reptiles, promoting their health and well-being.



Control Two Reptile Devices in One Thermometat

One Socket for On/off Control
One Socket for Dimming Control

Image: The REPTITRIP PT02T thermostat connected to two heat lamps in a reptile terrarium, demonstrating its dual control capability.

PRODUCT OVERVIEW

The PT02T thermostat integrates two distinct control functions into a single unit:

- **Timer Socket:** This socket provides on/off control for connected devices based on a user-defined timer (1 to 24 hours). It is suitable for devices that require scheduled operation, such as daytime heat lamps, UVA/UVB lights, or LED lights.
- **PID Temperature Socket:** This socket offers precise temperature regulation using PID dimming technology. It continuously adjusts the power output to the connected heating device to maintain a stable target temperature within the enclosure. This is ideal for heat mats, ceramic heat emitters, and infrared heat lamps.



- Voltage:
100-120V

- Temp Setting Range:
50-140°F/OFF

- Max Output:
260W for each socket

- Timer Setting Range:
1-24H

Image: Detailed view of the PT02T controller, highlighting the timer display, target temperature, current temperature, and control buttons.

SAFETY INSTRUCTIONS

- Ensure the total wattage of devices connected to each socket does not exceed 260W.
- Always place the temperature sensor in the reptile's basking area or the desired temperature zone, away from direct heat sources that could provide inaccurate readings.
- Do not immerse the controller or any part of the wiring in water. This product is designed for indoor use only.
- Regularly inspect all cables and connections for damage. Discontinue use if any damage is observed.
- Keep the device out of reach of pets to prevent chewing or tampering.
- The power cord features a flame-retardant jacket and sturdy strain relief for enhanced safety and durability.



Image: A power plug with a flame-retardant jacket, emphasizing the product's safety features.



Image: A comparison showing the sturdy strain relief on the product's cable versus a damaged, frayed cable from another product, highlighting durability.

SETUP

1. **Unpack:** Carefully remove the thermostat and all components from the packaging.
2. **Connect Devices:**
 - Connect your timer-controlled device (e.g., daytime heat lamp, UVB light) to the socket labeled with a clock icon.
 - Connect your temperature-controlled heating device (e.g., heat mat, ceramic heat emitter) to the socket labeled with a thermometer icon.
3. **Position Sensor:** Place the temperature sensor inside the reptile enclosure in the area where you want to monitor and maintain the temperature. Use the included suction cup to secure the sensor. Ensure the sensor is not directly under a heat lamp or in a water dish, which could lead to inaccurate readings.
4. **Mount Controller:** Position the controller in a visible and accessible location outside the enclosure.
5. **Power On:** Plug the thermostat's power cord into a standard 100-120V electrical outlet. The display will illuminate.



Image: A temperature sensor positioned on a rock within a reptile habitat, illustrating proper placement.

OPERATING INSTRUCTIONS

Setting the Timer Socket

The timer socket controls devices for a set duration each day. This is ideal for simulating day/night cycles.

1. Press the **U/TIME** button once. The timer display will flash.
2. Use the **+** or **-** buttons to adjust the desired ON duration (1 to 24 hours).
3. Press the **U/TIME** button again to confirm the setting. The timer will now operate daily based on this duration.

Example: To set an 8-hour daytime cycle, set the timer to "8H". The device will turn on for 8 hours and then off for 16 hours, repeating daily from the time it was initially activated.



How to Set the Target Temp

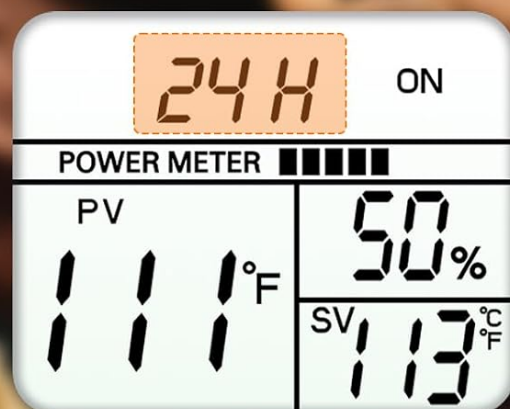
1. Press the TEMP button
2. Use the **-/+** button to choose the temp you need

Image: Visual guide on setting the timer duration using the thermostat's buttons.

Compatible Devices for Timer Socket (up to 260W): Heat Mats, Ceramic Emitters, Infrared Lamps, Night Lamps, Daylight Bulbs, Sun Lamps, UVA/UVB Bulbs, LED Lights.

Timer Socket

Set a timer from 1 to 24 hours
Support Up to 260W



						
Heat Mat	Ceramic Emitter	Infrared Lamp	Night Lamp	Daylight Bulb	Sun Lamp	UVB Bulb
✓	✓	✓	✓	✓	✓	✓

Image: A selection of heating and lighting devices, such as heat mats, ceramic emitters, and various bulbs, indicating their compatibility with the timer socket.

Setting the PID Temperature Socket

The PID temperature socket maintains a constant temperature by dimming the connected heating device.

1. Press the **TEMP** button once. The target temperature (SV) display will flash.
2. Use the **+** or **-** buttons to adjust the desired target temperature (range: 50-140°F).
3. Press the **TEMP** button again to confirm the setting. The thermostat will now work to maintain this temperature.

The PID algorithm ensures temperature accuracy within $\pm 1^{\circ}\text{F}$ by smoothly adjusting the power output to the heating device, preventing sudden temperature fluctuations.



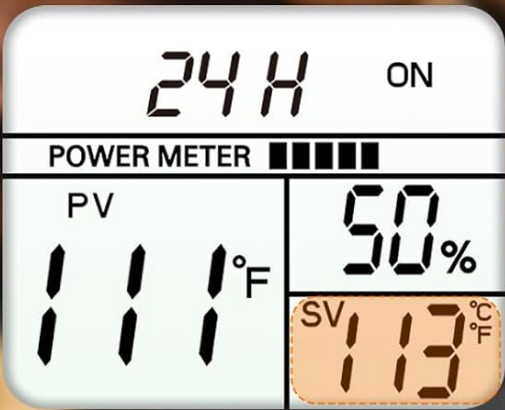
Image: Visual guide on setting the target temperature using the thermostat's buttons.

Compatible Devices for PID Temperature Socket (up to 260W):Heat Mats, Ceramic Emitters, Infrared Lamps, Daylight Bulbs, Sun Lamps.

Note: UVB Bulbs and LED Lights are generally not compatible with dimming control and should be connected to the Timer Socket.

Temperature Socket

Place the temp probe where you want to keep the temp
Support Up to 260W



						
Heat Mat	Ceramic Emitter	Infrared Lamp	Night Lamp	Daylight Bulb	Sun Lamp	UVB Bulb
✓	✓	✓	✓	✓	×	×

Image: A selection of heating devices, including heat mats and various bulbs, indicating their compatibility with the temperature socket, with UVB and LED bulbs marked as incompatible.

MAINTENANCE

- **Cleaning:** Disconnect the thermostat from power before cleaning. Wipe the unit with a dry, soft cloth. Do not use abrasive cleaners or immerse in water.
- **Sensor Care:** Keep the temperature sensor clean and free from debris. Ensure it is securely placed and not obstructed.
- **Cable Inspection:** Periodically check all cables for signs of wear, cuts, or damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Display is off.	No power supply.	Check if the thermostat is properly plugged into a working outlet.
Temperature not reaching set point (SV).	Heating device wattage is too low; sensor placement is incorrect.	Replace the heating bulb/device with one of higher wattage (up to 260W). Ensure the sensor is in the basking area and not obstructed.
Timer socket device not turning on/off as scheduled.	Timer not set correctly; device malfunction.	Review the timer setting instructions. Test the connected device directly in a wall outlet.
PID socket device not maintaining stable temperature.	Sensor issue; incompatible device.	Ensure the sensor is clean and properly placed. Verify the connected device is compatible with dimming control.

SPECIFICATIONS

Feature	Detail
Model	PT02T
Input Voltage	100-120V
Max Output (per socket)	260W
Temperature Setting Range	50-140°F (10-60°C) / OFF
Temperature Accuracy	±1°F
Timer Setting Range	1-24 hours
Display Type	Digital
Sensor Cable Length	5.8 ft (approx. 177 cm)
Power Cord Length	5 ft (approx. 152 cm)
Socket Cord Length	0.9 ft (approx. 27 cm)
Material	Plastic
Special Features	PID Dimming, Programmable, Timer Function, Memory Function



Image: Visual representation of the thermostat's dimensions and the lengths of its temperature sensor, power cord, and socket cords.

WARRANTY AND SUPPORT

For warranty information, please refer to the detailed warranty description provided in the original product packaging or contact REPTIRIP customer service. Keep your purchase receipt for warranty claims.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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