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Retoo E634

Retoo Thermostat Plug with Temperature Sensor, Model E634 - Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your Retoo Thermostat Plug, Model E634. This device is designed to precisely control temperature for various applications, including terrariums, aquariums, greenhouses, and home heating/cooling systems, by regulating the power supply to connected appliances based on a set temperature range. Please read this manual thoroughly before use and retain it for future reference.



Figure 1: Retoo Thermostat Plug with integrated display and external temperature sensor.

2. PRODUCT OVERVIEW

The Retoo Thermostat Plug features a clear digital display, intuitive controls, and an external temperature probe for accurate readings. It supports both heating and cooling modes and includes a timer function for scheduled operation.

2.1 Components

- Thermostat Plug Unit
- External Temperature Sensor Probe (wired)
- Instruction Manual (this document)



Figure 2: Front view of the thermostat plug, highlighting the display and control buttons (MODE, SET, UP, DOWN).



Figure 3: Rear view of the thermostat plug, showing the power prongs and product specifications label.

3. SETUP

- 1. Unpack the Device:** Carefully remove the thermostat plug and its components from the packaging.
- 2. Connect the Sensor:** Ensure the external temperature sensor probe is securely connected to the thermostat unit. The probe is typically pre-attached.
- 3. Plug into Power:** Insert the thermostat plug into a standard European grounded wall socket (250V). The display will illuminate.

- 4. Position the Sensor:** Place the temperature sensor probe in the area where you wish to measure and control the temperature. Ensure it is not directly exposed to heat sources or drafts that could skew readings.
- 5. Connect Appliance:** Plug the appliance you wish to control (e.g., heater, fan, lamp) into the socket on the front of the thermostat plug.





Figure 4: The thermostat plug connected to a wall outlet, ready for use.

4. OPERATING INSTRUCTIONS

4.1 Display Overview

The digital display shows the measured temperature, set start temperature, set stop temperature, and timer information. The unit can operate in both heating and cooling modes.



Figure 5: Example display showing current temperature, and programmed ON/OFF temperatures for an appliance.

4.2 Setting Temperature Parameters

1. Press the **SET** button once to enter temperature setting mode. The "Start Temperature" value will flash.
2. Use the **UP** and **DOWN** buttons to adjust the desired start temperature. This is the temperature at which the connected appliance will turn ON.
3. Press **SET** again. The "Stop Temperature" value will flash.
4. Use the **UP** and **DOWN** buttons to adjust the desired stop temperature. This is the temperature at which the connected appliance will turn OFF.
5. Press **SET** a third time to confirm settings and exit. The device will now operate based on your set parameters.

Note: If the start temperature is set higher than the stop temperature, the device will operate in **cooling mode** (e.g., for a fan). If the start temperature is set lower than the stop temperature, it will operate in **heating mode** (e.g., for a heater).

4.3 Timer Function (Cycle Timer)

The thermostat includes a cycle timer function, indicated by "CD ON" and "CD OFF" on the display. This allows for scheduled on/off periods independent of temperature control, or in conjunction with it.

1. Press the **MODE** button repeatedly until "CYCLE TIMER" or "CD ON/OFF" settings are displayed.
2. Use the **SET** button to cycle through setting "CD ON" (duration the appliance is on) and "CD OFF" (duration the appliance is off).
3. Use the **UP** and **DOWN** buttons to adjust the hours and minutes for each cycle.
4. Press **MODE** to save and exit the timer settings.

Note: Refer to the specific display indicators for "CD ON" and "CD OFF" to ensure correct timer programming. The timer function can be used for applications requiring periodic operation, such as ventilation or lighting cycles.

4.4 Resetting the Device

To reset the device to factory settings, locate the small reset button (often a pinhole) between the **SET** and **UP** buttons. Use a thin, pointed object (like a paperclip) to press and hold this button for a few seconds until the display resets.

5. MAINTENANCE

- **Cleaning:** Disconnect the device from power before cleaning. Wipe the surface with a soft, dry cloth. Do not use abrasive cleaners or immerse the unit in water.
- **Sensor Care:** Keep the temperature sensor probe clean and free from debris. Avoid bending or damaging the sensor cable.
- **Storage:** When not in use, store the thermostat plug in a cool, dry place, away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|---|--|--|
| Device does not power on. | No power from the wall socket; device not properly plugged in. | Check the wall socket with another appliance. Ensure the thermostat plug is fully inserted. |
| Appliance not turning ON/OFF as expected. | Incorrect temperature settings; appliance not working; timer function interfering. | Verify the set start and stop temperatures. Check if the appliance is functional. Review timer settings if active. |
| Temperature reading appears inaccurate. | Sensor probe improperly placed or damaged. | Ensure the sensor is in the desired measurement area and not near external heat/cold sources. Check the sensor cable for damage. |
| Display shows error code or freezes. | Temporary software glitch. | Perform a device reset using the pinhole button (see Section 4.4). If the issue persists, contact customer support. |

7. SPECIFICATIONS

- **Brand:** Retoo
- **Model Number:** E634
- **Voltage:** 100-250VAC (110V, 230V compatible)

- **Max Load:** 16A(2), 3680W
- **Temperature Range:** -40°C to +120°C
- **Temperature Control Accuracy:** ±1%
- **Timing Accuracy:** Max 10 minutes
- **Dimensions (L x W x H):** 12 x 7.6 x 5.8 cm
- **Item Weight:** 166 g
- **Connectivity Technology:** Wired
- **Special Feature:** Temperature Display



Figure 6: Technical dimensions of the thermostat plug and sensor cable.

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the retailer's return policy or contact Retoo customer service directly. Details may be available on the product packaging or the official Retoo website.

Online Support: Visit the [Retoo Brand Store on Amazon](#) for additional product information and support resources.

