Diymore temperatuur vochtigheid

Diymore Humidity and Temperature Controller Socket User Manual

Model: temperatuur vochtigheid

1. INTRODUCTION

This manual provides comprehensive instructions for the Diymore Humidity and Temperature Controller Socket. This device is designed to precisely control humidity and temperature in various environments, such as incubators, terrariums, greenhouses, and storage areas. It features multiple operating modes, calibration functions, and an alarm system to maintain desired environmental conditions.

2. SAFETY INFORMATION

Please read all safety instructions before operating the device. Failure to follow these instructions may result in electric shock, fire, or damage to the product.

- Ensure the power supply matches the device's specifications (230V, 16A, max 3680W).
- Do not immerse the device or sensor in water or expose it to excessive moisture.
- Do not disassemble or modify the device.
- Keep out of reach of children.
- Unplug the device from the power outlet before cleaning or maintenance.
- Use only in dry, indoor environments.

3. PRODUCT FEATURES

The Diymore Controller Socket offers a range of features for precise environmental control:

- **Four Operating Modes:** Humidification, Dehumidification, Heating, and Cooling.
- **Wide Control Range:** Humidity 20-95%RH; Temperature -10°C to 50°C (14°F to 122°F).
- **Adjustable Start/Stop Values:** Program connected devices to activate based on set humidity/temperature thresholds.
- **Calibration Function:** Real-time adjustment for humidity (-10~10%RH) and temperature (-9.9~9.9°C).
- **Alarm Function:** Audible alarm when humidity or temperature exceeds set limits.
- **Data Memory:** Retains all settings after a power failure.
- **Reset Function:** Allows restoration of factory settings.

- **Button Tone Settings:** Customize button feedback.
- **Error Prompt Function:** Provides indications for operational issues.
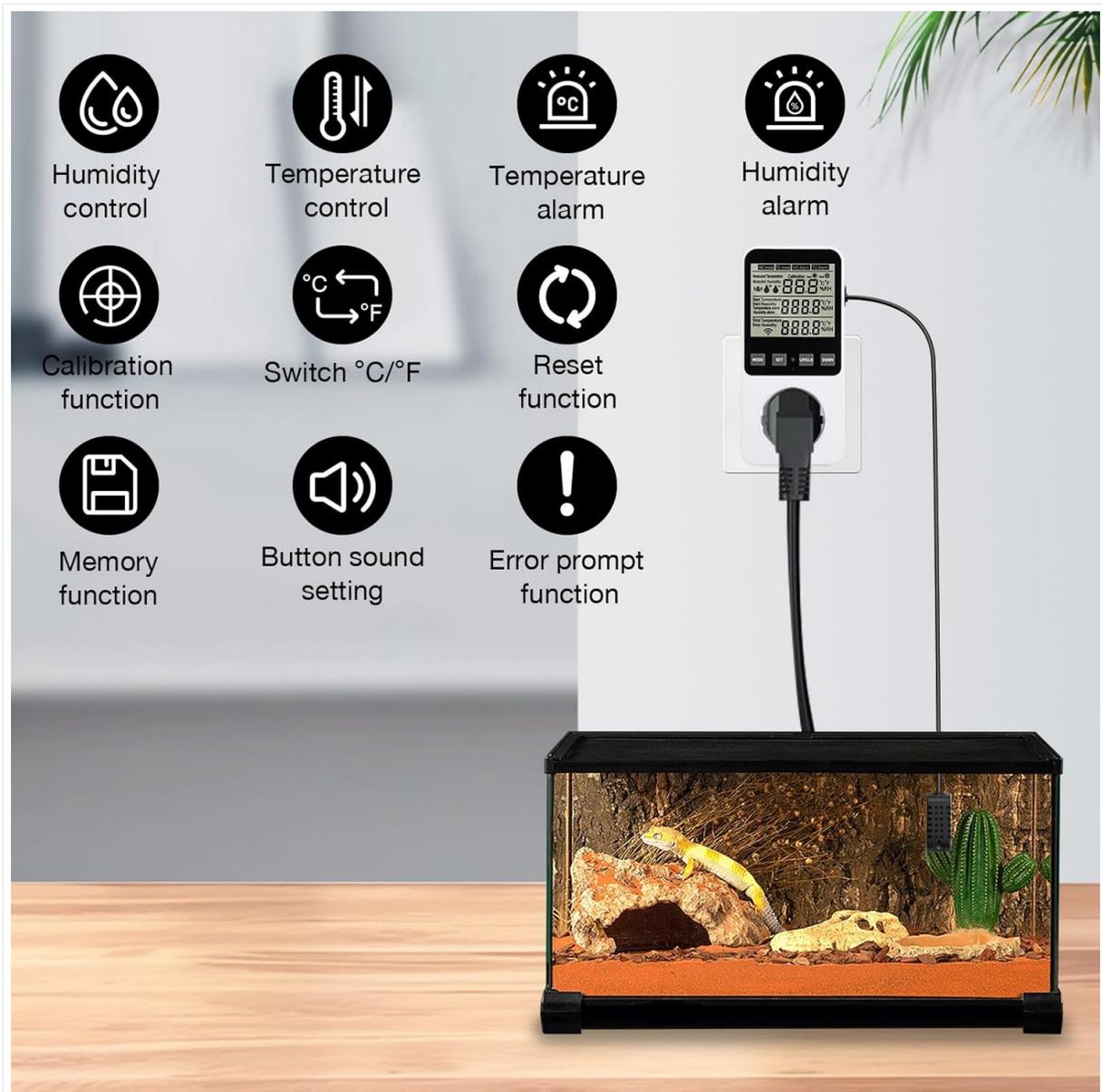- **°C/°F Switching:** Easily switch between Celsius and Fahrenheit temperature units.

Figure 3.1: Overview of Diymore Controller Socket features, including humidity and temperature control, alarm functions, calibration, and memory.

4. PACKAGE CONTENTS

The package includes the following items:

- 1 x Diymore Humidity and Temperature Controller Socket (230V)
- 1 x External Sensor Probe

5. PRODUCT OVERVIEW AND DIMENSIONS

Familiarize yourself with the device's components and dimensions.

Figure 5.1: Diymore Controller Socket with external sensor.

Figure 5.2: Product dimensions of the controller and sensor.

The main unit measures approximately 13.1 cm (5.11 in) in height, 6 cm (2.36 in) in width, and 3.2 cm (1.25 in) in depth. The sensor probe measures approximately 5.5 cm (2.16 in) in length and 2.3 cm (0.90 in) in width.

6. SETUP

1. **Unpack:** Carefully remove the controller and sensor from the packaging.
2. **Connect Sensor:** Ensure the external sensor probe is securely plugged into the designated port on the side of the controller.
3. **Position Sensor:** Place the sensor in the area where you wish to monitor and control humidity and temperature. Ensure it is not directly exposed to water or extreme conditions that could damage it.
4. **Plug In:** Insert the controller's plug into a standard 230V power outlet. The display will illuminate.
5. **Connect Appliance:** Plug your humidifier, dehumidifier, heater, or cooler into the socket on the front of the controller.

7. OPERATING INSTRUCTIONS

The controller features four buttons: **MODE**, **SET**, **UP/CLK**, and **DOWN**.

7.1. Switching Temperature Units (°C/°F)

To switch between Celsius (°C) and Fahrenheit (°F):

- Press and hold the **SET** button for 3 seconds. The temperature unit on the display will change.

7.2. Selecting Operating Mode

The device supports four main operating modes: Humidification (HC mode), Dehumidification (HC mode), Heating (TC mode), and Cooling (TC mode). Press the **MODE** button repeatedly to cycle through these modes.

Figure 7.1: Examples of the four working modes and alarm settings.

7.3. Setting Humidity/Temperature Control Values

To set the desired start and stop values for humidity or temperature:

1. Press the **MODE** button to select either HC (Humidity Control) or TC (Temperature Control) mode.
2. Press the **SET** button once. The "Start Humidity" or "Start Temperature" value will begin to flash.
3. Use the **UP/CLK** and **DOWN** buttons to adjust the desired start value.
4. Press the **SET** button again. The "Stop Humidity" or "Stop Temperature" value will flash.
5. Use the **UP/CLK** and **DOWN** buttons to adjust the desired stop value.
6. Press the **SET** button a third time, or wait a few seconds, to save the settings and exit.

Note: For humidification/heating, the start value should be lower than the stop value. For dehumidification/cooling, the start value should be higher than the stop value.

7.4. Setting Alarm Function

The device can trigger an alarm if humidity or temperature goes outside a set range.

1. Press the **MODE** button to select either HC Alarm (Humidity Alarm) or TC Alarm (Temperature Alarm) mode.

2. Press the **SET** button once. The alarm threshold value will flash.

3. Use the **UP**/**CLK** and **DOWN** buttons to adjust the desired alarm threshold.

4. Press the **SET** button again, or wait a few seconds, to save the setting and exit.

When the measured humidity/temperature exceeds the set alarm value, the hygrostat will emit an audible alarm sound.

7.5. Calibration Function

To calibrate the humidity or temperature readings:

- Press and hold the **UP**/**CLK** button. The calibration value will appear and flash.

- Use the **UP**/**CLK** and **DOWN** buttons to adjust the calibration offset.

  - Humidity correction range: -10%RH to 10%RH

  - Temperature correction range: -9.9°C to 9.9°C

- Press and hold the **MODE** button to save the calibration and exit.

7.6. Other Functions

- **Data Memory:** The device automatically saves all setting parameters, which are retained even after a power failure.
- **Reset Function:** To restore factory settings, refer to the specific instructions in the full manual (if available) or contact support.
- **Button Tone Settings:** The device allows for customization of button sounds. Refer to the full manual for detailed instructions.
- **Turn Off Alarm Sound:** Specific instructions for turning off the alarm sound are typically found in the full manual.

8. APPLICATIONS

The Diymore Controller Socket is versatile and suitable for various applications requiring precise humidity and temperature control:

- Incubators
- Domestic Reptile Habitats
- Poultry Houses
- Mushroom Cultivation
- Glass Containers / Terrariums
- Greenhouses
- Humidifiers and Dehumidifiers
- Household and Industrial Environments
- Wine Cellars
- Refrigerators
- Warehouses

Figure 8.1: Diverse applications of the Diymore Controller Socket.

9. MAINTENANCE

- **Cleaning:** Disconnect the device from power before cleaning. Wipe the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Sensor Care:** Keep the sensor clean and free from dust or debris. Avoid bending or damaging the sensor cable.
- **Storage:** If storing the device for an extended period, unplug it and store it in a dry, cool place.

10. TROUBLESHOOTING

If you encounter issues with your Diymore Controller Socket, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	No power supply; loose connection.	Ensure the device is securely plugged into a live 230V outlet. Check the power outlet with another appliance.
Incorrect humidity/temperature reading.	Sensor dirty or damaged; calibration needed.	Clean the sensor. Perform a calibration as described in Section 7.5. Ensure the sensor is correctly positioned.
Connected appliance not turning on/off.	Incorrect mode selected; start/stop values set incorrectly; appliance fault.	Verify the correct operating mode (HC/TC) is selected. Check that start and stop values are set appropriately for the desired action (e.g., start humidity lower than stop for humidification). Test the connected appliance directly.

Problem	Possible Cause	Solution
Alarm sounds unexpectedly.	Alarm thresholds set too close to current conditions; actual conditions exceed thresholds.	Review and adjust the alarm threshold settings (Section 7.4). Check the actual humidity/temperature in the environment.
Display shows "H2" or other error prompt.	Indicates very high humidity/temperature or sensor issue.	Check environmental conditions. If conditions are normal, inspect the sensor for damage or disconnection. If the issue persists, contact customer support.

11. Specifications

Model Number	temperatuur vochtigheid
Display Humidity Range	20% - 95% RH
Display Temperature Range	-10°C to 50°C (14°F to 122°F)
Humidity Calibration Range	-10%RH to 10%RH
Temperature Calibration Range	-9.9°C to 9.9°C
Power Supply (EU)	230V AC, 50Hz
Max Load	16A, 3680W
Product Dimensions (Main Unit)	13.1 x 6.2 x 3.2 cm (approx. 5.11 x 2.44 x 1.25 inches)
Sensor Dimensions	5.5 x 2.3 cm (approx. 2.16 x 0.90 inches)
Material	Plastic
Display Type	LCD or LED
Color	White

12. Warranty and Support

For warranty information or technical support, please refer to the documentation included with your purchase or contact Diymore customer service through their official website or the retailer where the product was purchased. Please have your model number (temperatuur vochtigheid) and purchase date available when contacting support.