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Finnex HC-810M

Finnex Aquarium Digital Heater Controller

MODEL: HC-810M USER MANUAL

Introduction

The Finnex HC-810M Digital Heater Controller is designed to provide precise temperature control for your aquarium, ensuring a stable environment for your aquatic livestock. This controller features a digital LED display for easy monitoring and adjustable high/low temperature settings with an audio alert for enhanced safety. Its dual-relay inter-work system offers double protection against overheating, automatically disabling heating if temperatures exceed safe limits. The controller is compatible with various heating elements up to 800 Watts, including Finnex Titanium Tubes, and retains preset settings even after power interruptions.

Safety Information

- This device is intended for indoor aquarium use only.
- Ensure the controller and all connected heating elements are unplugged before performing any maintenance or handling.
- Do not immerse the controller unit in water. The temperature probe is submersible, but the main unit is not.
- Ensure the total wattage of all connected heating elements does not exceed 800 Watts.
- Keep the controller away from direct sunlight, excessive heat, or moisture.
- Always use a drip loop for all power cords to prevent water from traveling along the cord and reaching the electrical outlet.
- If the unit shows signs of damage or malfunction, discontinue use immediately and contact customer support.

Package Contents

- Finnex HC-810M Digital Heater Controller Unit
- Temperature Probe
- User Manual (this document)

Setup

1. **Placement:** Position the Finnex HC-810M controller in a dry, well-ventilated area, away from direct water splashes.
2. **Connect Heater:** Plug your aquarium heating element(s) into the three-prong power receptacle(s) on the controller. Ensure the total wattage does not exceed 800 Watts. *Note: Heating elements are sold separately.*
3. **Position Temperature Probe:** Carefully place the temperature probe into your aquarium. For accurate readings, position the probe away from direct water flow from the heater and in an area that reflects the average tank temperature. Use the included suction cup to secure the probe to the aquarium glass.
4. **Power On:** Plug the controller's power cord into a standard 120V electrical outlet. The LED display will illuminate, showing the current water temperature.



Image: The Finnex HC-810M controller showing its main unit, power cords, and the temperature probe.

Operating Instructions

1. **Reading Temperature:** The large LED display shows the current water temperature.
2. **Setting Desired Temperature:**
 - Press the **ON/OFF/SET** button once. The display will flash the current set temperature.
 - Use the **+** and **-** buttons to adjust the desired temperature.
 - Press **ON/OFF/SET** again to confirm and save the setting. The display will return to showing the current water temperature.

3. **Setting High/Low Temperature Alerts:** The controller features an audio alert for temperature deviations.
 - Press and hold the **ALERT - LO** button to set the lower temperature alert limit. Use **+** and **-** to adjust. Release the button to save.
 - Press and hold the **ALERT - HI** button to set the upper temperature alert limit. Use **+** and **-** to adjust. Release the button to save.
 - If the water temperature goes outside these set limits, an audible alarm will sound.
4. **Switching Between Celsius and Fahrenheit:** Press the **°C/°F** button to toggle between Celsius and Fahrenheit temperature units.
5. **Overheat Protection:** The dual-relay system automatically cuts power to the heater if the temperature exceeds a safe threshold, providing an additional layer of protection for your aquarium.

Maintenance

- **Regular Cleaning:** Periodically wipe the controller unit with a dry, soft cloth to remove dust.
- **Probe Cleaning:** Gently clean the temperature probe regularly to prevent algae or mineral buildup, which can affect accuracy. Use a soft brush or cloth and aquarium water. Do not use harsh chemicals.
- **Cable Inspection:** Regularly inspect all cables and connections for any signs of wear, fraying, or damage. Replace if necessary.
- **Power Cycle:** If the unit behaves erratically, try unplugging it from the power outlet for a few minutes, then plug it back in. This can often resolve minor issues.

Troubleshooting

Problem	Possible Cause	Solution
Controller not powering on.	No power to outlet; faulty power cord; internal malfunction.	Check outlet with another device. Inspect power cord for damage. If problem persists, contact support.
Heater not turning on/off as expected.	Heater not plugged in correctly; heater malfunction; temperature probe dirty/misplaced; set temperature too far from current.	Ensure heater is securely plugged into controller. Test heater directly in outlet. Clean and reposition probe. Adjust set temperature closer to current.
Temperature reading is inaccurate.	Probe dirty or covered in algae; probe not in optimal location; probe damaged.	Clean the temperature probe. Relocate probe to an area with consistent water flow, away from direct heater output. If damage is suspected, contact support.
Audio alarm constantly sounding.	Water temperature outside set alert limits; alert limits set too narrowly.	Check actual water temperature. Adjust high/low alert limits to a wider range if necessary. Ensure heater is functioning correctly to maintain desired temperature.

Specifications

Model Name	HC-810M
Brand	Finnex
Manufacturer	JSK Merchandise Inc.
Voltage	120 Volts
Max Temperature Setting	93 Degrees Fahrenheit
Max Heater Wattage	800 Watts
Special Feature	Overheat Protection, Digital Display, Audio Alert
Indoor/Outdoor Usage	Indoor
Product Dimensions (LxWxH)	3 x 1 x 5 inches
Item Weight	12.8 ounces
Included Components	Aquarium Controller, Temperature Probe
Country of Origin	China

Warranty and Support

The Finnex HC-810M Digital Heater Controller comes with a **180-Day Manufacturer's Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

What is NOT Covered: This warranty does not cover damage resulting from accident, misuse, abuse, improper installation, unauthorized repair or modification, or failure to follow the instructions in this manual.

To Obtain Warranty Service: Please retain your proof of purchase. For warranty claims or technical support, please contact Finnex customer service directly. Refer to the official Finnex website or your product packaging for the most current contact information.

For additional information and support, visit the official Finnex website or contact your retailer.