

EcoSmart THRM SML

EcoSmart THRM SML Thermistor Instruction Manual

INTRODUCTION

This manual provides instructions for the EcoSmart THRM SML Thermistor, a critical component designed for temperature sensing and control in tankless electric water heaters. It is compatible with EcoSmart 8kW, 11kW, and 13kW models. Please read this manual thoroughly before installation or maintenance.

SAFETY INFORMATION

Adhering to safety precautions is essential to prevent injury or damage to the product and property.

- Always disconnect power to the water heater at the circuit breaker before attempting any installation, maintenance, or repair. Verify power is off using a voltage tester.
- Installation should be performed by a qualified professional if you are unsure about any steps.
- Refer to your water heater's main instruction manual for specific safety guidelines and detailed wiring diagrams.
- Ensure all electrical connections are secure and properly insulated to prevent electrical hazards.
- Wear appropriate personal protective equipment, such as gloves and safety glasses, during installation.

PACKAGE CONTENTS

Please verify that all items are present in your package:

- EcoSmart THRM SML Thermistor with Inlet/Outlet Wires
- Two (2) O-rings for sealing



Image 1: The EcoSmart THRM SML Thermistor, showing the thermistor probes with red and yellow wires, and two black O-rings for sealing.

SETUP AND INSTALLATION

The EcoSmart THRM SML Thermistor is designed for specific EcoSmart tankless electric water heater models (8kW, 11kW, and 13kW). Follow these steps carefully for proper installation:

1. **Power Disconnection:** Turn off the main power supply to the water heater at the circuit breaker. Verify power is off using a voltage tester before proceeding.
2. **Access Panel Removal:** Locate and carefully remove the access panel on your tankless water heater to expose the internal components. Refer to your water heater's specific manual for detailed panel removal instructions.
3. **Locate Existing Thermistor:** Identify the existing thermistor(s). Tankless water heaters typically have two thermistors: one for the inlet and one for the outlet. Note which wire corresponds to which location.
4. **Disconnect Old Thermistor:** Carefully disconnect the wires from the old thermistor and then remove the thermistor from its port. Be prepared for a small amount of residual water.
5. **Install New Thermistor:** Insert the new EcoSmart THRM SML Thermistor into the designated port. Ensure that the provided O-ring is properly seated around the thermistor probe to create a watertight

seal.

6. **Connect Wires:** Connect the thermistor wires to the appropriate terminals on the water heater's control board. The thermistor typically features a male-to-female connector. Ensure a secure and firm connection.
7. **Secure Panel:** Carefully replace the access panel and secure it with its original fasteners.
8. **Restore Power:** Turn the main power supply back on at the circuit breaker.
9. **Test Functionality:** Monitor the water heater's operation to ensure correct temperature sensing and heating. Check for any error codes or unusual behavior.

OPERATION

The EcoSmart THRM SML Thermistor functions as a precise temperature sensor within your tankless electric water heater. It continuously monitors the water temperature at both the inlet and outlet points, providing crucial data to the water heater's control system. This data enables the water heater to accurately regulate the activation and deactivation of its heating elements, thereby ensuring consistent and accurate hot water delivery according to your desired set temperature. It does not require direct user interaction for its operation.

MAINTENANCE

Proper maintenance helps ensure the longevity and optimal performance of your thermistor and water heater.

- **Visual Inspection:** Periodically, during routine water heater maintenance, visually inspect the thermistor and its wiring for any signs of wear, corrosion, fraying, or physical damage.
- **Connection Check:** Ensure all electrical connections to the thermistor remain secure and tight. Loose connections can lead to intermittent operation or inaccurate temperature readings.
- **Cleanliness:** Keep the area around the thermistor free from debris, dust, or mineral buildup, which could potentially affect its ability to accurately sense temperature.
- **Professional Check:** If you suspect a malfunction or notice any unusual behavior from your water heater, it is advisable to consult a qualified technician for diagnosis and repair.

TROUBLESHOOTING

If your water heater is displaying error codes related to temperature sensing or is not heating water correctly, the thermistor may require attention. Always disconnect power before inspecting components.

- **No Hot Water / Inconsistent Temperature:**
 - Possible Cause:** Faulty thermistor or loose connection.
 - Solution:** Check thermistor connections for tightness. If the issue persists after ensuring secure connections, the thermistor may need replacement.
- **Error Code Displayed:**
 - Possible Cause:** Specific error codes often indicate a sensor malfunction.
 - Solution:** Consult your water heater's main manual to interpret specific error codes. If the code points to a thermistor issue, replacement may be necessary.
- **Water Too Hot or Too Cold:**
 - Possible Cause:** Inaccurate temperature reading from the thermistor.
 - Solution:** Verify the thermistor is correctly installed and free from obstructions or mineral buildup. If

readings are consistently off, consider replacement.

For complex issues or if troubleshooting steps do not resolve the problem, it is recommended to contact EcoSmart customer support or a certified technician.

SPECIFICATIONS

Feature	Detail
Brand	EcoSmart
Model Name	Ecosmart THRM SML Thermistor
Part Number	THRM SML
Compatible Devices	8kW, 11kW, 13kW Water Heaters
Recommended Uses	Temperature sensing and control in tankless electric water heaters
Connector Type	3 Pin
Cable Type	Coaxial
Number of Pins	2
Connector Gender	Male-to-Female
Item Weight	0.02 Kilograms (0.528 ounces)
Product Dimensions	0.1 x 0.1 x 10 inches
Maximum Voltage	1 Volts
Indoor/Outdoor Usage	Indoor
Included Components	Thermistor, Inlet and Outlet Wires







WARRANTY AND SUPPORT

For detailed warranty information, technical support, or to inquire about replacement parts, please refer to the official EcoSmart website or contact their customer service department directly. It is recommended to keep your purchase receipt as proof of purchase for any warranty claims.

EcoSmart Contact Information:

Website: www.ecosmartus.com

Customer Service: Please visit the official website for the most current contact details, including phone numbers and email support.

 <p>ecoSMART INSTALLATION INSTRUCTIONS & HOMEOWNER'S MANUAL ECO 8, 11, 18, 24, 27, 36 Models</p> <p>IMPORTANT SAFETY INFORMATION</p> <p>Read and understand all instructions before attempting to install or use this product. Failure to follow instructions may result in property damage, personal injury, or death. Please read the entire manual before attempting to install or use this product. The manual should be kept in the home for future reference.</p>	<p>EcoSmart Tankless Water Heater Installation and Homeowner's Manual for ECO 8, 11, 18, 24, 27, 36 Models</p> <p>Comprehensive installation instructions and homeowner's manual for EcoSmart electric tankless water heaters (ECO 8, 11, 18, 24, 27, 36 models). Includes safety information, plumbing and electrical installation guides, sizing charts, maintenance tips, troubleshooting, and warranty details.</p>
 <p>eco Electric Tankless Water Heaters INSTALLATION INSTRUCTIONS & HOMEOWNERS MANUAL POU 4T & POU 6T</p> <p>IMPORTANT SAFETY INFORMATION</p> <p>Read and understand all instructions before attempting to install or use this product. Failure to follow instructions may result in property damage, personal injury, or death. Please read the entire manual before attempting to install or use this product. The manual should be kept in the home for future reference.</p>	<p>Electric Tankless Water Heaters Installation Instructions & Home Owners Manual</p> <p>Comprehensive guide for EcoSmart POU 4T and POU 6T electric tankless water heaters, covering safe installation, operation, maintenance, and troubleshooting. Includes important safety warnings regarding scalding and electrical hazards, ensuring optimal performance and energy efficiency for homeowners.</p>
 <p>USE & CARE MANUAL MANUAL DE USO Y CUIDADO TANKLESS ELECTRIC WATER HEATERS CALEFACCIONADOR AGUA ELECTRICOS SIN TANQUE</p> <p>ECO 12, ECO 18, ECO 27</p>	<p>EcoSmart Tankless Electric Water Heater Use & Care Manual</p> <p>Comprehensive use and care manual for EcoSmart tankless electric water heaters (ECOS 12, ECOS 18, ECOS 27), covering installation, operation, maintenance, troubleshooting, and warranty information for optimal performance and safety.</p>
 <p>ecoSMART USE & CARE MANUAL MANUAL DE USO Y CUIDADO TANKLESS ELECTRIC WATER HEATERS CALEFACCIONADOR AGUA ELECTRICOS SIN TANQUE</p> <p>ECO 12, ECO 18, ECO 27</p>	<p>EcoSmart Tankless Electric Water Heaters: Use & Care Manual</p> <p>Comprehensive guide for EcoSmart tankless electric water heaters, covering installation, operation, maintenance, troubleshooting, and warranty information for models ECOS 12, ECOS 18, and ECOS 27.</p>
 <p>ecoSMART INSTALLATION INSTRUCTIONS & HOMEOWNERS MANUAL ECO 18, ECO 24, ECO 27</p> <p>IMPORTANT SAFETY INFORMATION</p> <p>Read and understand all instructions before attempting to install or use this product. Failure to follow instructions may result in property damage, personal injury, or death. Please read the entire manual before attempting to install or use this product. The manual should be kept in the home for future reference.</p>	<p>Ecosmart Tankless Water Heater Installation & Homeowners Manual ECO 18, ECO 24, ECO 27</p> <p>Comprehensive installation instructions, operation guide, maintenance tips, and troubleshooting for Ecosmart ECO 18, ECO 24, and ECO 27 electric tankless water heaters. Learn about safety, plumbing, electrical setup, and optimizing performance.</p>
 <p>ecoSMART ELECTRIC MINI TANK ECO MINI 1, 2.5, 4, 6</p> <p>IMPORTANT SAFETY INFORMATION</p> <p>Read and understand all instructions before attempting to install or use this product. Failure to follow instructions may result in property damage, personal injury, or death. Please read the entire manual before attempting to install or use this product. The manual should be kept in the home for future reference.</p>	<p>EcoSmart Electric Mini Tank Water Heater Specifications and Applications</p> <p>Detailed specifications, recovery times, product attributes, and heating applications for EcoSmart Electric Mini Tank Water Heaters, including models ECO MINI 1, 2.5, 4, and 6.</p>