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Easy Heat GTS1

Easy Heat GTS1 FGS Programmable Thermostat User Manual

Model: GTS1

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Easy Heat GTS1 FGS Programmable Thermostat. This thermostat is designed to control electric floor warming systems, ensuring comfortable and efficient heating for your tiled areas. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

- **Electrical Hazard:** Installation must be performed by a qualified electrician in accordance with local and national electrical codes. Always disconnect power at the main circuit breaker before installing or servicing the thermostat.
- **Ground Fault Circuit Interrupter (GFCI):** This thermostat includes a built-in Class A GFCI for protection against electrical shock. Test the GFCI monthly as described in the maintenance section.
- **Voltage Compatibility:** Ensure the thermostat's voltage rating (120V or 240V) matches your electric floor warming system.
- **Indoor Use Only:** This thermostat is intended for indoor use in dry locations only.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Easy Heat GTS1 FGS Programmable Thermostat
- Mounting Screws
- Floor Sensor/Wire Assembly
- Wire Connectors
- Instruction Manual



Image: The floor sensor and its connecting wire, essential for accurate floor temperature measurement.

4. PRODUCT FEATURES

The Easy Heat GTS1 FGS Thermostat offers advanced features for optimal floor heating control:

- **Dual Voltage Compatibility:** Operates with both 120V and 240V electric floor warming systems.
- **Programmable Scheduling:** Offers 5/2 day or full 7-day programming options to match your lifestyle.
- **Power Loss Protection:** Retains programming settings during power interruptions; clock settings are maintained for up to 10 minutes.
- **Built-in Class A GFCI:** Provides essential ground fault protection.
- **Large Blue Backlit LCD:** Clear and easy-to-read display for temperature and settings.
- **Compact Design:** Blends seamlessly with various interior decors.



Image: The Easy Heat GTS1 FGS Programmable Thermostat, featuring its compact design and digital display.

5. INSTALLATION

Important: All wiring must comply with national and local electrical codes. Installation should be performed by a qualified electrician.

5.1 Pre-Installation Steps

1. **Disconnect Power:** Turn off power to the heating circuit at the main electrical panel.
2. **Verify Voltage:** Confirm that the voltage of your floor heating system (120V or 240V) matches the thermostat's rating.
3. **Prepare Wiring:** Ensure all necessary wiring (line voltage, load, and floor sensor) is accessible in the electrical box.

5.2 Mounting the Thermostat

1. Carefully remove the front cover of the thermostat.
2. Mount the thermostat base to a standard electrical box using the provided screws. Ensure it is securely fastened.

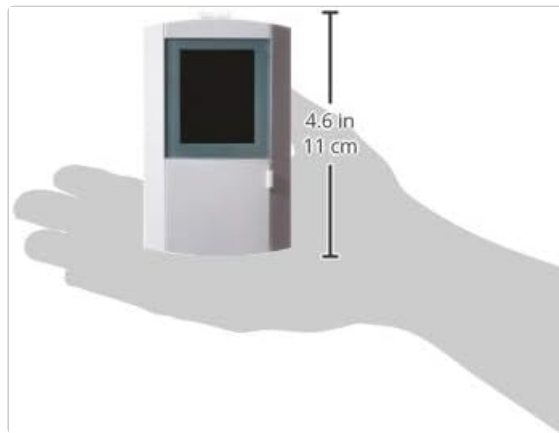


Image: The thermostat held in a hand, illustrating its compact dimensions for easy wall mounting.

6. WIRING DIAGRAM

The GTS1 FGS thermostat requires connections for line voltage (power supply), load (heating cable), and the floor sensor. Refer to the detailed wiring diagram included in the physical instruction manual for specific terminal connections. Incorrect wiring can cause damage to the thermostat, heating system, or pose a safety hazard.

- **Line (L1, L2):** Connect to the main power supply from the circuit breaker.
- **Load (Heat):** Connect to the electric floor heating cable.
- **Sensor:** Connect the floor sensor wires to the designated sensor terminals.
- **Ground:** Ensure proper grounding of the thermostat and heating system.

Use the provided wire connectors to secure all electrical connections.

7. SETUP

After successful installation and power restoration, the thermostat will power on. Follow these general steps for initial setup:

1. **Initial Power-Up:** The display will illuminate. You may need to set the current time and day.

2. **Set Time and Day:** Use the navigation buttons (up/down arrows) and 'Settings' or 'Next' button to adjust the time and day of the week.
3. **Temperature Units:** Select between Fahrenheit (°F) and Celsius (°C) if prompted or via the settings menu.
4. **Programming Mode:** Choose between 5/2 day programming (weekdays/weekends) or 7-day programming (individual days).

8. OPERATING INSTRUCTIONS

The GTS1 FGS thermostat allows for both manual and programmed control of your floor heating system.

8.1 Basic Operation

- **On/Off:** Press the 'On/Off' button to toggle the heating system.
- **Adjusting Temperature:** Use the up and down arrow buttons to manually adjust the desired floor temperature. This will typically override the program temporarily.

8.2 Programming Schedules

The thermostat allows you to set different temperature schedules for various times of the day and days of the week.

1. **Access Program:** Press the 'Event Program' button to enter the programming mode.
2. **Set Events:** For each day or group of days (depending on 5/2 or 7-day mode), you can typically set multiple events (e.g., Wake, Leave, Return, Sleep) with corresponding desired temperatures and times.
3. **Navigation:** Use 'Next' to move between events or days, and the up/down arrows to adjust times and temperatures.
4. **Save:** Ensure you save your program settings before exiting the programming mode.

8.3 Hold Function

Press the 'Hold' button to maintain the current temperature indefinitely, overriding the programmed schedule until the 'Hold' function is cancelled.

9. MAINTENANCE

- **Cleaning:** Clean the thermostat's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **GFCI Test:** Press the 'GFCI Reset' button monthly. The GFCI should trip, and the display may go blank or show an error. Press 'GFCI Reset' again to restore normal operation. If the GFCI does not trip or reset, contact a qualified electrician.

10. TROUBLESHOOTING

If you experience issues with your thermostat, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power to thermostat	Circuit breaker tripped, loose wiring	Check circuit breaker and reset if necessary. Verify wiring connections (consult electrician).

Problem	Possible Cause	Solution
Floor not heating	Thermostat off, low set temperature, GFCI tripped, heating cable issue	Ensure thermostat is ON and set temperature is above current floor temperature. Reset GFCI. Consult electrician if heating cable is suspected.
GFCI trips frequently	Ground fault in heating system or wiring	Immediately contact a qualified electrician to diagnose and repair the ground fault.
Incorrect temperature reading	Faulty sensor, sensor not properly installed	Ensure sensor is correctly placed and connected. If issue persists, sensor may need replacement (consult electrician).

For issues not listed here or if troubleshooting steps do not resolve the problem, contact Easy Heat customer support or a qualified electrician.

11. SPECIFICATIONS

- **Model:** GTS1 FGS
- **Voltage:** 120V / 240V AC
- **Maximum Amperage:** 15A
- **GFCI:** Built-in Class A (5mA trip)
- **Display:** Large Blue Backlit LCD
- **Programming:** 5/2 Day or 7 Day
- **Control Type:** Push Button, Touch
- **Connectivity:** Wired
- **Mounting Type:** Wall Mount
- **Dimensions (Product):** 8.4 x 5.7 x 3.1 inches (21.3 x 14.5 x 7.9 cm)
- **Item Weight:** 0.85 Pounds (0.39 kg)
- **Certifications:** UL Listed

12. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official Easy Heat website. Keep your purchase receipt as proof of purchase for warranty claims.