

Eberle FR-E52531

Eberle FR-E 525 31 Floor Heating Thermostat User Manual

Model: FR-E52531

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Eberle FR-E 525 31 Floor Heating Thermostat. Please read these instructions carefully before beginning installation or use, and retain them for future reference. This thermostat is designed to regulate the temperature of electric underfloor heating systems.

2. PRODUCT OVERVIEW

The Eberle FR-E 525 31 is a reliable thermostat for controlling underfloor heating. It features a simple interface for temperature adjustment and a power switch.



Figure 1: Front view of the Eberle FR-E 525 31 Floor Heating Thermostat. It features a white casing, a toggle switch

labeled 'O' (Off) and 'I' (On) at the top left, and a rotary dial for temperature adjustment (marked 1-6 with a °C symbol) on the right. An external floor sensor cable is visible extending from the bottom.

Key Features:

- Regulation range: 10 to 60 °C
- Hysteresis: 1.0 °C
- Antifreeze function: Yes
- Switching capacity: 14 A
- Supply voltage: 230 V/50 Hz
- Switching voltage: 230 V

3. SPECIFICATIONS

Specification	Value
Brand	Eberle
Model Number	FR-E52531
Voltage	230 Volts
Item Weight	260 g
ASIN	B000ONPS0U
Manufacturer	Eberle
Regulation Range	10 to 60 °C
Hysteresis	1.0 °C
Antifreeze Function	Yes
Switching Capacity	14 A
Supply Frequency	50 Hz

4. SAFETY INSTRUCTIONS

- **Electrical Hazard:** Installation and wiring must be performed by a qualified electrician in accordance with all local and national electrical codes.
- Disconnect power at the main circuit breaker before installing or servicing the thermostat.
- Do not operate the thermostat with wet hands or while standing on a wet surface.
- Ensure the thermostat is installed in a dry location, away from direct sunlight, drafts, or heat sources that could affect its temperature readings.
- Do not exceed the specified electrical ratings (voltage, current).
- Keep packaging materials out of reach of children.

5. INSTALLATION (SETUP)

Important: Installation must be carried out by a qualified electrician.

1. **Power Disconnection:** Turn off the main power supply to the heating circuit at the consumer unit/fuse box. Verify that the power is off using a suitable voltage tester.
2. **Mounting Location:** Choose a suitable location on an interior wall, away from direct heat sources, cold drafts, or direct sunlight, which could influence temperature readings. The thermostat should be mounted at a standard switch height.
3. **Wiring:**
 - Connect the live (L) and neutral (N) power supply wires to the designated terminals on the thermostat.
 - Connect the live (L_load) and neutral (N_load) wires from the underfloor heating system to the corresponding load terminals.
 - Connect the floor sensor cable to the dedicated sensor terminals. Ensure the sensor is correctly placed within the floor, typically in a conduit for easy replacement, and positioned centrally between heating cables.
 - Ensure all connections are secure and correctly insulated.
4. **Enclosure:** Secure the thermostat to the wall box and attach the front cover.
5. **Power Restoration:** Restore power to the circuit at the main circuit breaker.

6. OPERATION

Operating your Eberle FR-E 525 31 thermostat is straightforward:

- **Power On/Off:** Use the toggle switch (labeled 'O' for Off and 'I' for On) located on the top left of the thermostat to switch the unit on or off.
- **Temperature Adjustment:** Rotate the large dial on the right side of the thermostat to set your desired floor temperature. The dial is marked with numbers, typically corresponding to temperature levels (e.g., 1 to 6, representing 10°C to 60°C). Adjust the dial until the indicator aligns with your preferred setting.
- **Antifreeze Function:** The thermostat includes an antifreeze function to prevent the floor from freezing. This function activates automatically when the thermostat is switched on and the temperature drops below a certain threshold (e.g., 5°C), even if a higher temperature is not explicitly set.
- The thermostat will automatically switch the heating system on and off to maintain the set temperature.

7. MAINTENANCE

- **Cleaning:** Clean the thermostat casing with a soft, dry cloth. Do not use abrasive cleaners, solvents, or excessive moisture, as these can damage the unit.
- **No User-Serviceable Parts:** The thermostat contains no user-serviceable parts. Do not attempt to open or repair the unit yourself. Refer all servicing to qualified personnel.
- **Regular Checks:** Periodically check for any visible damage to the thermostat or its wiring. If damage is observed, disconnect power and contact a qualified electrician.

8. TROUBLESHOOTING

If you experience issues with your thermostat, please consult the following table before contacting support:

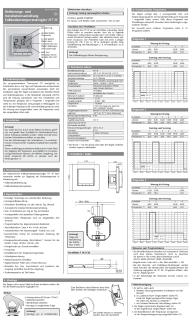
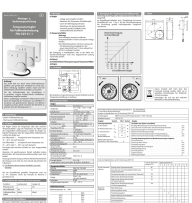
Problem	Possible Cause	Solution
Heating not turning on	<ul style="list-style-type: none"> No power to the thermostat. Thermostat switch is in 'O' (Off) position. Temperature setting is too low. Faulty wiring or sensor. 	<ul style="list-style-type: none"> Check circuit breaker. Switch to 'I' (On) position. Increase temperature setting. Contact a qualified electrician.
Heating always on / too hot	<ul style="list-style-type: none"> Temperature setting is too high. Sensor fault. Thermostat fault. 	<ul style="list-style-type: none"> Decrease temperature setting. Contact a qualified electrician.
Inaccurate temperature reading	<ul style="list-style-type: none"> Sensor incorrectly placed or faulty. Thermostat exposed to drafts or direct heat. 	<ul style="list-style-type: none"> Ensure sensor is correctly installed. Relocate thermostat if necessary. Contact electrician if sensor is faulty.

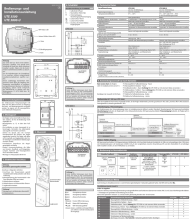
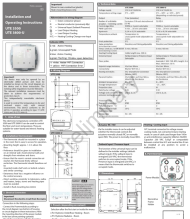
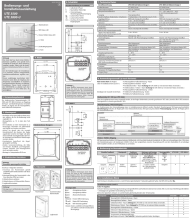
9. WARRANTY AND SUPPORT

Warranty information for the Eberle FR-E 525 31 thermostat is typically provided at the point of purchase or included with the product packaging. Please refer to these documents for details regarding warranty coverage and terms.

For technical support, service, or warranty claims, please contact your retailer or the authorized Eberle service center in your region. Ensure you have your product model number (FR-E52531) and proof of purchase available when seeking assistance.

Related Documents - FR-E52531

	<p>Eberle FIT 3F Floor Temperature Controller: Installation and Operation Manual</p> <p>Get detailed installation and operation instructions for the Eberle FIT 3F floor temperature controller. Learn about its features, programming, technical specifications, and troubleshooting for efficient underfloor heating.</p>
	<p>Eberle FRe 525 31/i Temperature Controller for Floor Heating - Installation and Operating Manual</p> <p>Comprehensive installation and operating guide for the Eberle FRe 525 31/i thermostat, designed for electric and hot water floor heating systems. Features include technical specifications, wiring diagrams, sensor fault handling, and temperature range limitation.</p>

	<p><u>Eberle UTE 3500 & UTE 3800-U Thermostat Installation and Operating Instructions</u></p> <p>This document provides comprehensive installation and operating instructions for the Eberle UTE 3500 and UTE 3800-U thermostats. It covers technical specifications, wiring diagrams, setup procedures, use case configurations, installer and user menus, and smart home connectivity via Matter WiFi.</p>
	<p><u>UTE 3500 & UTE 3800-U Installation and Operating Instructions</u></p> <p>Comprehensive guide for the installation and operation of the UTE 3500 and UTE 3800-U electronic temperature controllers, covering technical data, wiring, presets, installer settings, and Matter WiFi configuration.</p>
	<p><u>UTE 3500 & UTE 3800-U Installation and Operating Instructions Eberle</u></p> <p>Comprehensive installation and operating manual for the Eberle UTE 3500 and UTE 3800-U smart thermostats, covering setup, wiring, configuration, and features like Matter WiFi connectivity.</p>
	<p><u>Eberle INSTAT 868-a1S Plug-in Radio Frequency Receiver - Installation and Operation Manual</u></p> <p>Comprehensive installation and operating instructions for the Eberle INSTAT 868-a1S plug-in radio frequency receiver. Learn how to connect, operate, and troubleshoot this device for temperature control in residential spaces.</p>