Mapei 2855401

Mapei Thermo Basic Non-Programmable Floor Heating Thermostat User Manual

Model: 2855401

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Mapei Thermo Basic Non-Programmable Floor Heating Thermostat (Model 2855401). This thermostat is designed to provide precise and consistent temperature control for electric radiant floor heating systems, enhancing comfort in your living or commercial space. Its non-programmable functionality ensures straightforward and hassle-free temperature management.

Figure 1: Front view of the Mapei Thermo Basic Non-Programmable Floor Heating Thermostat. The display shows "11:15" and "84°F", indicating the current time and temperature. Below the display, the "nVent NUHEAT" logo is visible, along with a square button.

2. IMPORTANT SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation must be performed by a qualified electrician in accordance with local and national electrical codes. Failure to follow these instructions may result in serious injury or death.

- Always disconnect power at the circuit breaker before installing or servicing the thermostat.

- This thermostat is designed for use with electric radiant floor heating systems only.

- The built-in Ground Fault Circuit Interrupter (GFCI) provides essential protection against electrical shock. Test the

GFCI regularly as per instructions.

- Do not expose the thermostat to water or excessive moisture.

- Ensure all wiring connections are secure and properly insulated.

3. KEY FEATURES

- **Simple Temperature Control:** Non-programmable design for straightforward manual temperature adjustment.

- **Dual-Voltage Compatibility:** Compatible with both 120 V and 240 V Mapeheat floor warming cables, offering versatility for various heating setups.

- **Integrated GFCI Protection:** Features a built-in Ground Fault Circuit Interrupter (GFCI) for enhanced safety, minimizing electrical hazards.

- **Backlit Display:** Clear and easy-to-read display with backlight for visibility in various lighting conditions.

- **Floor Heat Sensor:** Includes a temperature sensor for accurate floor temperature monitoring.

- **User-Friendly Design:** Intuitive button control for effortless usability.

- **Durable Construction:** Made from metal and plastic components for reliability.

4. TECHNICAL SPECIFICATIONS

Attribute	Detail
Brand	Mapei
Model Number	2855401 (Item model number: 94554-01)
Controller Type	Non-Programmable Thermostat
Voltage Compatibility	120 V, 240 V
Special Feature	Built-in GFCI
Color	White
Specific Uses	Floor Heating
Temperature Control Type	Manual
Included Components	Temperature Sensor
Item Weight	1 Pound (approx. 0.45 kg)
Material	Metal, Plastic
Display Type	LED or LCD (Backlit)
Control Type	Button Control
Mounting Type	Wall Mount
Dimensions	6 x 3.5 x 2.75 inches (Package Dimensions)
Manufacturer	nVent

5. INSTALLATION

Installation of the Mapei Thermo Basic thermostat involves working with electrical wiring. For safety and proper functionality, **it is strongly recommended that installation be performed by a qualified and licensed electrician** in accordance with all local and national electrical codes.

5.1 Pre-Installation Checklist

- Ensure power to the circuit is OFF at the main breaker.

- Verify that the floor heating system is compatible with a non-programmable thermostat and the thermostat's voltage (120V or 240V) matches your system.

- Confirm you have all necessary tools (screwdriver, wire strippers, electrical tape, etc.).

- Locate a suitable wall-mounted electrical box for the thermostat.

5.2 Wiring Instructions

1. Turn off power at the circuit breaker.

2. Carefully remove the existing thermostat (if applicable) or the cover plate from the electrical box.

3. Connect the thermostat wires to the appropriate electrical supply and floor heating cable wires. Refer to the wiring diagram provided with your specific product packaging for detailed connections. Ensure proper grounding.

4. Install the included floor temperature sensor cable into the floor according to the floor heating system manufacturer's instructions. Connect the sensor wires to the designated terminals on the thermostat.

5. Mount the thermostat securely into the electrical box.

6. Restore power at the circuit breaker.

Note: Specific wiring diagrams and detailed installation steps are typically included in the product packaging. Always consult those instructions for your exact model.

6. INITIAL SETUP

After successful installation and power restoration, the thermostat will power on.

1. **Initial Display:** The display will typically show the current time and the measured floor temperature.

2. **Set Time (if applicable):** If the thermostat has a clock display, use the designated buttons (usually up/down arrows or a menu button) to set the current time. Refer to the quick start guide in the product packaging for specific button functions.

3. **GFCI Test:** Press the "TEST" button on the GFCI. The GFCI should trip, and the display may show an error code or turn off. Press the "RESET" button to restore power. If the GFCI does not trip or reset, consult the troubleshooting section or a qualified electrician.

7. OPERATION

The Mapei Thermo Basic is a non-programmable thermostat, meaning it maintains a set temperature manually adjusted by the user.

7.1 Setting the Temperature

- The main display shows the current floor temperature.

- Use the **Up** (▲) and **Down** (▼) buttons (or similar directional buttons) to adjust the desired setpoint temperature.

- The thermostat will automatically work to maintain the set temperature.

7.2 GFCI Test and Reset

- **Test:** Press the **TEST** button on the GFCI. The GFCI should trip, interrupting power to the heating system. This confirms the GFCI is functioning correctly.
- **Reset:** After testing or if the GFCI trips due to a fault, press the **RESET** button to restore power.
- It is recommended to test the GFCI monthly to ensure continued protection.

8. MAINTENANCE

The Mapei Thermo Basic thermostat requires minimal maintenance.

- **Cleaning:** Wipe the thermostat's surface with a soft, damp cloth. Do not use abrasive cleaners, solvents, or chemical sprays, as these can damage the finish or internal components.
- **GFCI Testing:** Regularly test the GFCI as described in the "Operation" section to ensure it is functioning correctly.
- **No User-Serviceable Parts:** There are no user-serviceable parts inside the thermostat. Do not attempt to open or repair the unit yourself.

9. TROUBLESHOOTING

If you encounter issues with your Mapei Thermo Basic thermostat, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Thermostat display is blank.	No power to the thermostat; tripped circuit breaker; loose wiring connection.	Check the circuit breaker and reset if tripped. Ensure all wiring connections are secure (consult a qualified electrician).
Floor heating system is not heating.	GFCI tripped; setpoint temperature is too low; heating cable issue.	Press the GFCI RESET button. Increase the setpoint temperature. If the issue persists, consult a qualified electrician or the heating cable manufacturer.
GFCI trips frequently.	Ground fault in the heating system; faulty GFCI.	This indicates a serious electrical issue. Immediately contact a qualified electrician to diagnose and repair the fault. Do not attempt to bypass the GFCI.
Incorrect temperature reading.	Faulty floor sensor; sensor not properly installed.	Ensure the floor sensor is correctly installed and connected. If the problem persists, the sensor may need replacement (contact support).

For issues not listed above or if troubleshooting steps do not resolve the problem, please contact Mapei customer support or a qualified professional.

10. WARRANTY INFORMATION

The Mapei Thermo Basic Non-Programmable Floor Heating Thermostat is backed by a manufacturer's limited three-year warranty. This warranty is valid from the date of purchase and covers defects in materials and workmanship under normal use.

For full details regarding warranty terms, conditions, and claim procedures, please refer to the warranty documentation included with your product packaging or visit the official Mapei website. Keep your proof of purchase for warranty claims.
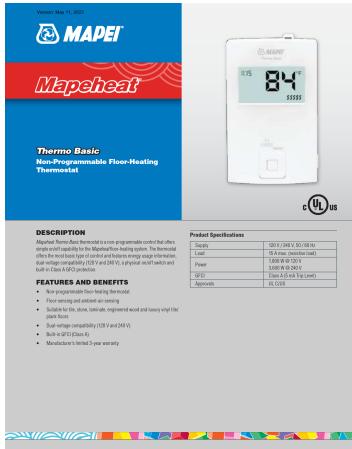
11. Customer Support

If you require further assistance with your Mapei Thermo Basic thermostat, including technical support, troubleshooting beyond this manual, or warranty inquiries, please contact Mapei customer service.

You can typically find contact information (phone number, email, or support portal) on the official Mapei website or within the product packaging.

Online Resources: For additional information and resources, you may visit the Mapei Store on Amazon or the official Mapei website.
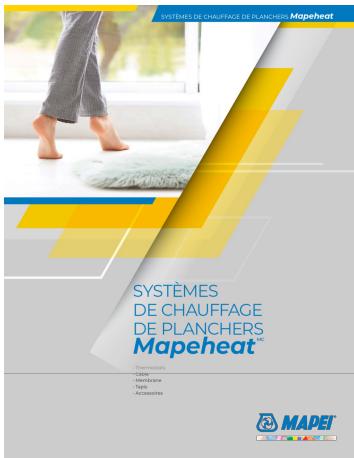
Documents - Mapei – 2855401

MAPEI Mapeheat Thermo Basic Non-Programmable Floor-Heating Thermostat
Overview of the MAPEI Mapeheat Thermo Basic, a non-programmable thermostat for floor heating systems. It offers simple on/off control, energy usage information, dual-voltage compatibility, and built-in Class A GFCI protection.
lang:en score:30 filesize: 768.24 K page_count: 2 document date: 2022-05-11

[pdf] Documentation Accessories Catalog
Mapeheat™ Mapei prieš 2 dienas — Thermostats Product Code Packaging Canada 2855401 Box Programmable WiFi Floor Heating Thermostat Mapeheat Thermo Connect 21 3041 mapeheat catalog 2022 ca en cdnmedia mapei docs librariesprovider65 line technical documentation documents sfvrsn ebc0c576 36 |||
Mapeheat FLOOR-HEATING SYSTEMS MapeheatTM FLOOR-HEATING SYSTEMS Thermostats Cable Membrane Mat ... Pt ackaPgaicnkgaging 2855301 Box Canada Product Code 2855201 Packaging Box Canada Product Code **2855401** Packaging Box 4 www.mapei.com 1-800-42-MAPEI 1-800-426-2734 Cable Membrane Thermost...
lang:en score:25 filesize: 10.77 M page_count: 16 document date: 2022-03-11