

## REHAU 13360241001

# Rehau Nea H 24 13360241001 Wired Room Thermostat 24V User Manual

Model: 13360241001 | Brand: REHAU

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Rehau Nea H 24 Wired Room Thermostat 24V. This device is designed for controlling the ambient temperature of surface heating systems. The Rehau Nea H 24 thermostat is CE and VDE approved according to EN 60730-2-9 and EN 60730-1 standards, ensuring reliable and safe operation.

## 2. SAFETY INSTRUCTIONS

- **Electrical Safety:** Installation and wiring must be performed by a qualified electrician in accordance with local electrical codes and regulations. Ensure the power supply is disconnected before any installation or maintenance work.
- **Voltage:** This thermostat operates on 24V. Do not connect it to higher voltage systems.
- **Environment:** Do not expose the device to moisture, extreme temperatures, or direct sunlight.
- **Handling:** Handle the thermostat with care to avoid physical damage.
- **Disposal:** Dispose of the product and its components responsibly, following local environmental regulations.

## 3. PACKAGE CONTENTS

Please check the package contents upon unpacking to ensure all parts are present:

- Rehau Nea H 24 Wired Room Thermostat
- Wall mounting bracket
- Up to 5 actuators (depending on specific kit/purchase)
- User Manual (this document)

## 4. SETUP AND INSTALLATION

## 4.1 Mounting

The Rehau Nea H 24 thermostat is suitable for mounting on a flush-mounted box or directly on the wall. Choose a location that accurately represents the room's temperature, away from direct heat sources, drafts, or direct sunlight.

## 4.2 Wiring

This thermostat uses a wired connection and operates on 24V. It can connect to a maximum of 5 servo motors. Refer to the wiring diagram provided with your heating system or consult a qualified electrician for proper connection. Ensure all connections are secure and insulated.



Figure 1: Front view of the Rehau Nea H 24 Wired Room Thermostat. The thermostat is white with a central grey rectangular display. A minus button (-) is located to the left of the display, and a plus button (+) is to the right. The REHAU logo is printed at the bottom center of the unit.

## 5. OPERATING INSTRUCTIONS

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The Rehau Nea H 24 thermostat offers various operating modes and features to manage your surface heating system efficiently.

### 5.1 Operating Modes

- **Automatic Mode:** The thermostat follows a pre-programmed schedule (if connected to an external digital timer like the Nea timer).
- **Normal Mode:** Maintains a comfortable set temperature.
- **Reduced Mode:** Maintains a lower, energy-saving temperature.
- **Optional Modes:** Additional modes may be available depending on the connected external timer or system configuration.

### 5.2 Key Features

- **Temperature Reduction:** Can be achieved via an external digital timer (e.g., Nea timer) for scheduled energy savings.
- **Frost Protection Function:** Automatically activates heating to prevent pipes from freezing if the temperature drops below a set threshold.
- **Valve Protection Function:** Periodically cycles the heating valves to prevent them from seizing due to inactivity.
- **Date Display:** The thermostat features a display that can show the current date.
- **Temperature Adjustment:** Use the '+' and '-' buttons to adjust the desired temperature setpoint.

## 6. MAINTENANCE

The Rehau Nea H 24 thermostat requires minimal maintenance.

- **Cleaning:** Wipe the surface of the thermostat with a soft, dry, or slightly damp cloth. Do not use abrasive cleaners, solvents, or chemical sprays, as these can damage the casing or internal components.
- **Inspection:** Periodically check the wiring connections for any signs of wear or looseness. Ensure the thermostat is securely mounted.

## 7. TROUBLESHOOTING

If you encounter issues with your Rehau Nea H 24 thermostat, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Thermostat not powering on / No display	<ul style="list-style-type: none"><li>◦ No power supply (24V)</li><li>◦ Incorrect wiring</li><li>◦ Blown fuse or tripped circuit breaker</li><li>◦ Internal fault</li></ul>	<ul style="list-style-type: none"><li>◦ Check the 24V power supply to the thermostat.</li><li>◦ Verify wiring connections according to the installation diagram. Ensure polarity is correct.</li><li>◦ Check your electrical panel for tripped breakers or blown fuses.</li><li>◦ If the issue persists after checking power and wiring, contact a qualified technician or Rehau support.</li></ul>

Problem	Possible Cause	Solution
Heating not responding to thermostat settings	<ul style="list-style-type: none"><li>◦ Incorrect operating mode selected</li><li>◦ Issue with connected actuators/servo motors</li><li>◦ External timer interference</li><li>◦ Thermostat malfunction</li></ul>	<ul style="list-style-type: none"><li>◦ Ensure the thermostat is in the desired operating mode (e.g., Normal, Automatic).</li><li>◦ Check the connection and functionality of the servo motors.</li><li>◦ If an external timer is used, verify its settings and operation.</li><li>◦ Consult a professional if the thermostat appears to be faulty.</li></ul>
Inaccurate temperature readings	<ul style="list-style-type: none"><li>◦ Thermostat location affected by drafts or heat sources</li><li>◦ Sensor malfunction</li></ul>	<ul style="list-style-type: none"><li>◦ Ensure the thermostat is not exposed to direct sunlight, drafts from windows/doors, or heat from appliances.</li><li>◦ If the problem persists, the sensor may be faulty, requiring professional inspection.</li></ul>

*Note: One user reported a circuit board issue upon initial power-on. This is often related to incorrect wiring or power supply issues rather than a defect in the thermostat itself. Always ensure correct voltage and wiring before powering on.*

## 8. TECHNICAL SPECIFICATIONS

Model Number	13360241001
Brand	REHAU
Application	Ambient temperature control for surface heating systems
Voltage	24 Volts
Connectivity Technology	Wired
Controller Type	Push-button
Temperature Control Type	Programmable (with external timer)
Dimensions (L x H x D)	88 x 88 x 26 mm
Protection Class	IP30
Color	Front: Signal White (RAL 9016), Back: Anthracite Grey (RAL 7016)
Weight	130 grams
Max. Servomotors	5 (connectable)
Special Features	Date display, Frost protection, Valve protection
Certifications	CE according to EN 60730-2-9 and EN 60730-1, VDE according to EN 60730-2-9 and EN 60730-1

## 9. WARRANTY AND SUPPORT

Information regarding specific spare parts availability is not provided. For warranty claims, technical support, or service inquiries, please contact REHAU customer service directly or refer to their official website for contact details.

It is recommended to keep your purchase receipt as proof of purchase for any warranty-related matters.

