Elektrobock PT32 GST

Elektrobock PT32 GST Digital Room Thermostat with GSM Module User Manual

Model: PT32 GST

1. INTRODUCTION

Thank you for choosing the Elektrobock PT32 GST Digital Room Thermostat. This device is designed to provide precise and efficient control over your heating or cooling system, with the added convenience of remote management via GSM. This manual will guide you through the installation, setup, and operation of your new thermostat. Please read these instructions carefully before use and retain them for future reference.

2. SAFETY INFORMATION

- Installation should only be performed by a qualified electrician in accordance with local regulations.
- Always disconnect power to the heating/cooling system before installing or servicing the thermostat.
- Do not expose the device to moisture, extreme temperatures, or direct sunlight.
- Ensure the power supply specifications match those required by the thermostat (5V DC, 2.5A).
- Keep out of reach of children.

3. PACKAGE CONTENTS

Please check that all items are present in your package:

- Elektrobock PT32 GST Digital Room Thermostat
- Power Adapter (5V DC, 2.5A, Jack type)
- User Manual (this document)
- *Note: 2x AA 1.5V batteries for clock backup are not included and must be purchased separately.*

4. PRODUCT OVERVIEW

The PT32 GST thermostat features a large, clear backlit display and intuitive controls. It is equipped with a GSM module for remote control via SMS messages.

4.1. Front View and Dimensions

Figure 1: Front view of the Elektrobock PT32 GST thermostat, showing the display, control dial, and buttons, along with its dimensions: 14 cm (width), 9 cm (height), and 3 cm (depth).

4.2. Rear View and Connections

Figure 2: Rear view of the Elektrobock PT32 GST thermostat, illustrating the mounting holes and terminal block for electrical connections.
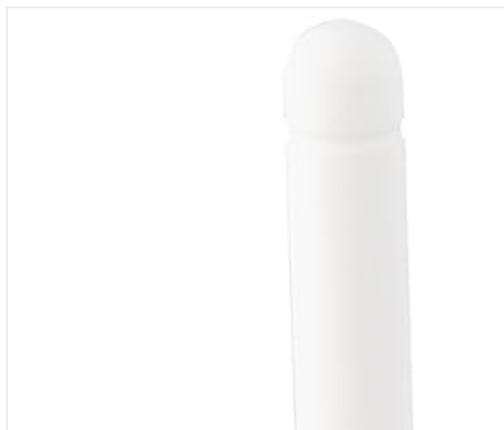
4.3. Side View

Figure 3: Right side view of the Elektrobock PT32 GST thermostat, highlighting its slim design and the external GSM antenna.

5. SETUP AND INSTALLATION

5.1. Mounting the Thermostat

1. Choose an appropriate location on an interior wall, away from direct sunlight, drafts, and heat sources.

2. Ensure the mounting height is approximately 1.5 meters (5 feet) from the floor for optimal temperature sensing.

3. Use the mounting holes on the back of the thermostat (refer to Figure 2) to mark and drill holes in the wall.

4. Secure the thermostat base to the wall using appropriate screws and wall plugs.

5.2. Electrical Wiring

WARNING: Disconnect power to your heating/cooling system at the main circuit breaker before proceeding with wiring.

1. Connect the thermostat to your heating/cooling system using the dry contact output terminals (max. 5A / 250V AC). Refer to your heating/cooling system's manual for specific wiring diagrams.

2. Connect the provided 5V DC, 2.5A power adapter to the thermostat's power input jack.

3. Insert 2x AA 1.5V batteries (not included) into the battery compartment for clock backup in case of power failure.

4. Once all connections are secure, restore power to the system.

5.3. Initial Configuration

1. **Language Selection:** Upon first power-up, the thermostat will prompt you to select a language (CZ / PL / EN / DE / RU / SVK). Use the control dial to navigate and confirm your choice.

2. **Date and Time:** Set the current date and time. The device supports automatic summer/winter time changes.

3. **GSM Module Setup:** Insert a valid SIM card (not included) into the designated slot. Follow the on-screen instructions to configure the GSM module for remote SMS control.

4. **Operating Mode:** Select either heating or cooling mode depending on your system.

6. OPERATING INSTRUCTIONS

6.1. Basic Operation

- **Display:** The large backlit LCD shows the current temperature, time, date, operating mode, and GSM signal strength.

- **Control Dial:** Use the central dial to navigate menus and adjust settings. Press the dial to confirm selections.

- **MENU/ESC Button:** Press to access the main menu or to exit a menu/setting without saving changes.

6.2. Programming Weekly Schedules

The PT32 GST allows for 9 weekly programs, with up to 6 temperature changes per day. Programming can be set for individual days, Monday-Friday, Saturday-Sunday, or Monday-Sunday.

1. Press the **MENU** button to enter the main menu.

2. Navigate to "Program Settings" and press the dial to select.

3. Choose the day(s) or day group you wish to program.

4. Set the desired temperature and time for each of the 6 available time slots. Programming resolution is 10 minutes and 0.5°C.

5. Save your changes before exiting.

6.3. Advanced Control Features

- **PID Control:** The thermostat features advanced PID (Proportional-Integral-Derivative) control for precise temperature regulation, minimizing overshoot and maintaining stable temperatures. You can also select Hysteresis or PI control modes.

- **Short-Term Temperature Change:** Temporarily adjust the temperature without altering the programmed schedule. The thermostat will revert to the schedule at the next programmed event.

- **Manual Mode (MANU):** Set a constant temperature that overrides the weekly program until manual mode is deactivated.

- **Permanent OFF:** Turn off the heating/cooling system indefinitely.

- **Holiday Mode:** Set a specific temperature for a defined period (e.g., during vacation) to save energy.

- **External Sensor:** The thermostat supports connection of an external temperature sensor for specialized applications.

6.4. Remote Control via GSM

With a properly configured SIM card, you can control your thermostat remotely by sending SMS messages.

- **Temperature Change:** Send an SMS with a specific command to adjust the set temperature.

- **System ON/OFF:** Send an SMS to turn the heating/cooling system on or off.

- Refer to the detailed GSM command list in the full product manual (if available) or on the manufacturer's website for specific SMS commands.

7. MAINTENANCE

- **Cleaning:** Wipe the thermostat's exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.

- **Battery Replacement:** Replace the AA backup batteries annually or when the low battery indicator appears on the display.

- **Boiler Maintenance Display:** The thermostat may display an automatic boiler maintenance reminder. Consult your boiler's manual or a qualified technician for maintenance.

- **Software Updates:** Check the Elektrobock website periodically for any available firmware updates for your device.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Thermostat display is blank.	No power supply or dead backup batteries.	Check if the power adapter is connected and functional. Replace AA backup batteries. Check circuit breaker.
Heating/Cooling system not responding.	Incorrect wiring, thermostat in OFF mode, or system malfunction.	Verify wiring connections. Ensure thermostat is not in "Permanent OFF" mode. Check system's power supply.
Cannot control via SMS.	No SIM card, incorrect GSM setup, or poor signal.	Ensure a valid SIM card is inserted and activated. Check GSM signal strength on the display. Reconfigure GSM settings.

Problem	Possible Cause	Solution
Temperature readings seem inaccurate.	Thermostat location affected by drafts/heat sources, or needs calibration.	Relocate thermostat if necessary. Use the temperature correction feature in settings to adjust.

If you encounter problems not listed here, please contact Elektrobock customer support.

9. SPECIFICATIONS

Brand	Elektrobock
Model Number	PT32 GST
Color	White
Dimensions (L x W x H)	14 x 9 x 3 cm
Item Weight	390 grams
Power Supply	5V DC, 2.5A (via included Jack adapter)
Battery Backup	2 x 1.5V AA (not included)
Output (Dry Contact)	Max. 5A / 250V AC
Temperature Control Type	Digital (PID, PI, Hysteresis)
Connectivity	GSM
Special Features	Frost Protection (3°C), Keypad Lock, Boiler Maintenance Display, Automatic Summer/Winter Time Change
Country of Origin	Czech Republic

10. WARRANTY INFORMATION

Elektrobock products are manufactured to high-quality standards. This product comes with a standard manufacturer's warranty. Please refer to the warranty card included with your purchase or visit the official Elektrobock website for detailed warranty terms and conditions specific to your region. The warranty typically covers defects in materials and workmanship under normal use.

Note: Damage caused by improper installation, misuse, unauthorized modifications, or natural disasters is not covered under warranty.

11. SUPPORT AND CONTACT

For technical assistance, troubleshooting, or general inquiries regarding your Elektrobock PT32 GST thermostat, please contact Elektrobock customer support.

- **Website:** Visit the official Elektrobock website for FAQs, updated manuals, and contact information.
- **Email/Phone:** Specific contact details can usually be found on the manufacturer's website or in the product packaging.

When contacting support, please have your product model number (PT32 GST) and purchase information ready.