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› [PERRY](#) /

› [PERRY 1TI TE541 MOON SOFT TOUCH Digital Built-in Thermostat 230V User Manual](#)

## PERRY 1TITE541

# PERRY 1TI TE541 MOON SOFT TOUCH Digital Built-in Thermostat 230V User Manual

Model: 1TITE541 | Brand: PERRY

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your PERRY 1TI TE541 MOON SOFT TOUCH Digital Built-in Thermostat. Please read this manual thoroughly before installation and use to ensure proper functioning and to prevent damage.

The PERRY 1TI TE541 is a 230V digital thermostat designed for built-in installation, offering precise temperature control for heating and cooling systems. It features two temperature levels, an anti-freeze function, and a backlit display.

## 2. SAFETY INFORMATION

- Installation must be performed by a qualified electrician and in compliance with local electrical regulations.
- Disconnect power to the thermostat and the system it controls before any installation, maintenance, or wiring work.
- Do not expose the thermostat to direct water spray or excessive humidity.
- Ensure the power supply matches the thermostat's requirements (230V AC, 50-60Hz).
- Do not attempt to repair or modify the thermostat yourself. Contact qualified service personnel.

## 3. PACKAGE CONTENTS

Verify that all components are present in the package:

- PERRY 1TI TE541 Digital Built-in Thermostat
- Instruction Manual (this document)
- Three interchangeable front panels for plate compatibility

## 4. PRODUCT OVERVIEW

The PERRY 1TI TE541 thermostat features a clear LCD display and intuitive soft-touch buttons for easy operation.



**Figure 1:** Front view of the PERRY 1TI TE541 Digital Thermostat. The display shows "COMFORT", "ON", "20.8°C" (current temperature), "Set 1 21:00" (set temperature and time), and buttons for "Menù", Up, Down, and Power/Mode.

### Display Elements:

- **Current Temperature:** Displays the ambient temperature.
- **Set Temperature:** Indicates the desired temperature.
- **Operating Mode:** Shows current mode (e.g., Comfort, Anti-freeze).
- **Relay Status:** An icon (e.g., flame for heating) indicates if the heating/cooling system is active.
- **Time:** Displays the current time.

### Control Buttons:

- **Menu Button:** Accesses settings and programming options.
- **Up Arrow Button:** Increases temperature, navigates menu options.
- **Down Arrow Button:** Decreases temperature, navigates menu options.
- **Power/Mode Button:** Turns the thermostat on/off or switches between operating modes.

## 5. INSTALLATION

The PERRY 1TI TE541 is designed for built-in installation. Ensure power is disconnected before proceeding.

### 5.1 Electrical Connection

1. Turn off the main power supply to the circuit where the thermostat will be installed.
2. Open the thermostat casing carefully.
3. Connect the 230V AC, 50-60Hz power supply wires to the designated terminals. Refer to the wiring diagram provided inside the thermostat casing or in a separate wiring guide (if applicable).
4. Connect the heating/cooling system control wires to the relay terminals as per the system requirements.
5. Ensure all connections are secure and properly insulated.

## 5.2 Mounting

1. Prepare a standard electrical wall box for built-in installation.
2. Carefully insert the thermostat into the wall box, ensuring wires are not pinched.
3. Secure the thermostat to the wall box using the provided screws.
4. Attach the desired front panel. The thermostat includes three different front panels for compatibility with various plate designs.
5. Close the thermostat casing.

## 5.3 Initial Power-On

Once installation is complete, restore the main power supply. The thermostat display should illuminate, indicating it is powered on.

# 6. SETUP

## 6.1 Setting Time and Date

Upon first power-on or after a power outage, you may need to set the current time and date. Refer to the "Menu" options for time/date settings. Use the Up/Down arrow buttons to adjust values and the Menu button to confirm.

## 6.2 Backlight Settings

The display backlight can be set to be fixed (always on) or temporary (illuminates when a button is pressed and then turns off after a short period). Access this setting through the Menu options and select your preferred mode.

# 7. OPERATING INSTRUCTIONS

The PERRY 1TI TE541 offers various modes and settings for optimal climate control.

## 7.1 Setting Temperature Levels

The thermostat supports two main temperature levels, typically referred to as Comfort and Economy, in addition to an anti-freeze setting.

- **Comfort Temperature:** The desired temperature during active periods.
- **Economy Temperature:** A lower temperature for energy saving during inactive periods.
- **Anti-freeze Temperature:** A minimum temperature (e.g., 5°C) to prevent freezing when the system is off or in standby.

To adjust these settings, press the Menu button and navigate to the temperature setting options. Use the Up/Down arrows to change the values within the regulation range of 5°C to 37.7°C.

## 7.2 Operating Modes (Winter/Summer)

The thermostat can operate in Winter (heating) or Summer (cooling) mode. This is often indicated as EST/INV (Estate/Inverno). Access the mode selection through the Menu or a dedicated button (refer to the specific icon on your thermostat if available).

## 7.3 Relay Status Indication

The display includes an icon (e.g., a flame for heating, a snowflake for cooling) that illuminates when the thermostat's relay is active, indicating that the heating or cooling system is currently running to reach the set temperature.

## 7.4 Telephone Command Input

The thermostat features an input for telephone commands, allowing remote activation or deactivation of certain functions. Consult the wiring diagram and specific instructions for connecting and configuring this feature with a compatible telephone interface.

## 7.5 Temperature Setpoint Lock

To prevent unauthorized changes to the temperature settings, the thermostat includes a setpoint lock feature. This function can be activated via the Menu to secure your desired temperature range.

## 8. MAINTENANCE

- Cleaning:** Wipe the thermostat's exterior with a soft, dry cloth. Do not use abrasive cleaners, solvents, or chemical sprays.
- Inspection:** Periodically check for any loose connections or signs of damage. If any issues are found, disconnect power and contact a qualified technician.
- Battery (if applicable):** This model is powered by 230V AC and does not require batteries for primary operation.

## 9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank	No power supply; loose wiring.	Check circuit breaker. Ensure thermostat is correctly wired to 230V AC.
Thermostat not controlling heating/cooling	Incorrect mode selected (Winter/Summer); set temperature not reached; wiring issue.	Verify operating mode. Adjust set temperature. Check relay status indicator. Consult a qualified electrician for wiring inspection.
Inaccurate temperature reading	Thermostat located near a heat source/draft; sensor malfunction.	Ensure thermostat is not exposed to direct heat or cold drafts. If problem persists, contact support.
Buttons unresponsive	Temporary software glitch; physical damage.	Try cycling power to the thermostat. If unresponsive, contact support.

## 10. SPECIFICATIONS

- Model:** 1TITE541
- Brand:** PERRY
- Power Supply:** 230V AC, 50-60Hz
- Display Type:** LCD
- Control Type:** Soft Touch
- Temperature Regulation Range:** 5°C to 37.7°C
- Installation Type:** Built-in
- Dimensions:** 14 x 16 x 8 cm (approximate, as per product data)
- Weight:** 230 g (approximate)
- Features:** 2 temperature levels, anti-freeze, fixed/timed backlight, relay status indication, telephone command

input, temperature setpoint lock.

## 11. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your product packaging or visit the official PERRY website. For technical support or service inquiries, please contact your retailer or the manufacturer's customer service department.

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