

## Salus RT510

# Salus RT510 Programmable Digital Thermostat User Manual

Model: RT510

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and programming of your Salus RT510 Programmable Digital Thermostat. The RT510 is designed to control your heating system efficiently, allowing you to set specific temperatures at different times throughout the day and week.

## 2. SAFETY INFORMATION

- Installation should only be carried out by a qualified electrician or competent person in accordance with national wiring regulations.
- Always disconnect the mains power supply before installing or performing any maintenance on the thermostat.
- Ensure the thermostat is kept away from water and excessive moisture.
- Use only the specified battery type (Alkaline) and dispose of used batteries responsibly.
- Do not attempt to repair or modify the unit yourself. Contact qualified service personnel.

## 3. PACKAGE CONTENTS

Please check that your package contains the following items:

- Salus RT510 Digital Thermostat Unit
- Wall Mounting Backplate
- Mounting Screws and Wall Plugs
- Alkaline Batteries
- User Manual (this document)

## 4. PRODUCT OVERVIEW

The Salus RT510 thermostat features a clear digital display and intuitive controls for managing your heating system.



**Figure 1: Salus RT510 Thermostat Front View**

The image displays the Salus RT510 digital thermostat, a white rectangular unit with a large LCD screen. The screen shows the current time (8:30 AM), day (THU), current temperature (20.5°C), and program number (2 PROG). To the left of the screen are '+Hr' and a hand icon button for manual override. To the right are up and down arrow buttons. Above the screen are small icons for snowflake (cooling) and fan (ventilation), and an airplane (holiday mode). The Salus logo is visible below the screen.

### Display Elements:

- **Time and Day:** Shows current time and day of the week.
- **Current Temperature:** Displays the ambient room temperature.
- **Set Temperature:** Indicates the desired temperature.
- **Program Number:** Shows the active program period.
- **Flame Icon:** Illuminates when the heating system is active.
- **Battery Indicator:** Alerts when batteries are low.

### Control Buttons:

- **Up/Down Arrows:** Adjust temperature settings, navigate menus.
- **+Hr Button:** Used for temporary manual override or extending current settings.
- **Hand Icon Button:** Activates manual mode or confirms selections.
- **Mode Button (if present):** Switches between heating, cooling (if supported), and off modes.

## 5. INSTALLATION

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The Salus RT510 is a hard-wired thermostat. Proper installation is crucial for safe and effective operation.

1. **Power Disconnection:** Before beginning, ensure the mains power supply to your heating system is completely disconnected at the consumer unit.
2. **Mounting Location:** Choose an internal wall, approximately 1.5 meters from the floor, away from direct sunlight, drafts, or heat sources (e.g., radiators, lamps).
3. **Backplate Installation:**
  - Separate the backplate from the thermostat unit.
  - Secure the backplate to the wall using the provided screws and wall plugs. Ensure it is level.
4. **Wiring:** Connect the electrical wiring from your heating system to the terminals on the backplate as per the wiring diagram provided with the product packaging. If you are unsure, consult a qualified electrician. The thermostat operates on 230 Volts.
5. **Attach Thermostat:** Once wiring is complete and secure, carefully attach the main thermostat unit to the backplate, ensuring it hooks over the top and is secured by two small screws at the bottom.
6. **Power Reconnection:** Restore mains power to your heating system.

***Note:** Incorrect wiring can damage the thermostat or your heating system. If you are not confident with electrical installations, please seek professional assistance.*

## 6. INITIAL SETUP

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After installation and power-up, perform the following steps for initial configuration:

1. **Insert Batteries:** Open the battery compartment (usually on the back or side) and insert the supplied Alkaline batteries, observing correct polarity. The thermostat display should illuminate.
2. **Set Time and Day:**
  - Press the appropriate button (refer to your unit's specific button, often a 'SET' or 'MENU' button, or hold the hand icon button) to enter time/day setting mode.
  - Use the Up/Down arrows to adjust the hour, minute, and day of the week.
  - Confirm each setting by pressing the appropriate button (e.g., hand icon or 'SET').
3. **Temperature Unit:** If applicable, select between Celsius (°C) and Fahrenheit (°F) in the settings menu.

## 7. OPERATING INSTRUCTIONS

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### 7.1. Manual Temperature Adjustment

To temporarily adjust the temperature without changing the program:

- In normal operating mode, press the Up or Down arrow buttons. The set temperature will flash.
- Adjust to your desired temperature. The new setting will be active until the next programmed time period begins.

### 7.2. Manual Override (+Hr Function)

The '+Hr' button allows for a temporary override of the current program for a set number of hours.

- Press the '+Hr' button. The display will show the override duration (e.g., 1 hour).
- Use the Up/Down arrows to adjust the desired temperature for this override period.
- The thermostat will maintain this temperature for the set duration, then revert to the programmed schedule.

### 7.3. Holiday Mode (Airplane Icon)

If your unit features a holiday mode (indicated by an airplane icon), this allows you to set a constant, lower temperature for an extended period, saving energy while you are away.

- Activate holiday mode via the menu or a dedicated button.
- Set the desired temperature and duration (number of days).
- The thermostat will maintain this temperature until the holiday mode expires, then resume the normal program.

## 8. PROGRAMMING THE THERMOSTAT

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The Salus RT510 offers flexible programming options to suit your lifestyle. You can typically choose between 5/2 day programming (weekdays and weekends) or individual 7-day programming.

### 8.1. Entering Programming Mode

Press and hold the 'PROG' or 'MENU' button (or similar, refer to your unit's specific button layout) until the display changes to show programming options.

### 8.2. Setting Program Periods

The thermostat allows for up to 6 temperature periods per day. Each period is defined by a start time and a target temperature. The period automatically ends when the next period begins.

1. **Select Day(s):** Choose whether to program for 5 weekdays + 2 weekend days, or each day individually (Mon, Tue, Wed, etc.).
2. **Set Period 1 (P1):**
  - Adjust the start time for the first period using the Up/Down arrows.
  - Adjust the desired temperature for this period.
  - Confirm and move to the next setting.
3. **Repeat for P2-P6:** Follow the same steps to set the start time and temperature for the remaining program periods (P2, P3, P4, P5, P6).
4. **Save and Exit:** Once all periods are set for the selected day(s), save your settings and exit programming mode (often by pressing the 'PROG' or 'MENU' button again, or waiting for an automatic exit).

*Tip: Even if you only need a few changes, you may need to set all 6 periods. For example, if you want a consistent temperature for several hours, set multiple consecutive periods to the same temperature.*

## 9. MAINTENANCE

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### 9.1. Battery Replacement

When the low battery indicator appears on the display, replace the batteries promptly to ensure continuous operation and prevent data loss.

1. Open the battery compartment.
2. Remove the old batteries.
3. Insert new Alkaline batteries, ensuring correct polarity.
4. Close the battery compartment. The time and program settings should be retained.

9.2. Cleaning

Clean the thermostat casing with a soft, dry cloth. Do not use abrasive cleaners, solvents, or spray directly onto the unit.

10. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank or dim.	Low or dead batteries.	Replace batteries with new Alkaline batteries.
Heating not turning on.	Thermostat is in OFF mode. Set temperature is below ambient. Programmed schedule is not active. Wiring issue.	Check thermostat mode. Increase set temperature. Check program schedule or use manual override. Consult a qualified electrician to check wiring.
Incorrect time/day displayed.	Time/day not set correctly or power interruption.	Re-set the current time and day as per Section 6.
Thermostat not responding to button presses.	Temporary software glitch or very low batteries.	Remove and re-insert batteries. If issue persists, contact support.

11. SPECIFICATIONS

Feature	Detail
Model	RT510
Brand	Salus
Type	Programmable Digital Thermostat
Power Source	Corded Electric (230V) for heating system, Battery for unit operation
Voltage	230 Volts
Batteries	Alkaline (included)
Dimensions (D x W x H)	10 x 3 x 10 cm (approx.)

Feature	Detail
Weight	300 g
Material	Plastic
Display Type	Digital
Control Type	Push Button
Mounting	Wall Mount
Special Features	Programmable
Connectivity	Wi-Fi (Note: This feature is listed in product specifications. Please refer to your specific model's documentation for Wi-Fi setup if applicable.)

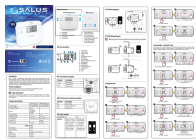

## 12. WARRANTY AND SUPPORT




For warranty information and technical support, please refer to the documentation included with your product or visit the official Salus website. Keep your proof of purchase for warranty claims.

If you encounter issues not covered in this manual, please contact Salus customer support for assistance.

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### Related Documents - RT510

	<p><a href="#">Salus RT510/RT510RF Programmable Thermostat Installation Guide</a></p> <p>Comprehensive installation and user guide for the Salus RT510 (wired) and RT510RF (wireless) electronic programmable thermostats. Covers setup, wiring, programming, modes, and technical specifications.</p>
	<p><a href="#">Salus RT520   RT520RF Programmable Thermostats with OpenTherm</a></p> <p>Explore the Salus RT520 (wired) and RT520RF (wireless) programmable thermostats, designed for efficient and intelligent heating control. Featuring the OpenTherm protocol, TPI algorithm, and user-friendly settings.</p>

	<p><a href="#"><u>SALUS RT510/RT510RF Programmable Thermostat Installation Manual</u></a></p> <p>Comprehensive installation guide for SALUS RT510 and RT510RF programmable room thermostats, detailing setup, features, programming, and troubleshooting.</p>
	<p><a href="#"><u>SALUS 091FLv2/091FLRFv2 Programmable Thermostat Quick Guide</u></a></p> <p>User guide for SALUS 091FLv2 and 091FLRFv2 programmable thermostats, detailing installation, features, and operation for efficient heating and cooling control.</p>
	<p><a href="#"><u>Salus 091FLv2/091FLRFv2 Digital Programmable Thermostat User Guide</u></a></p> <p>Comprehensive guide to the Salus 091FLv2 and 091FLRFv2 digital programmable thermostats, covering installation, setup, programming, and service menu options for efficient heating and cooling control.</p>
	<p><a href="#"><u>SALUS HTR230(20) Wired Electronic Thermostat User Manual</u></a></p> <p>Comprehensive user manual for the SALUS HTR230(20) non-programmable wired electronic thermostat. Provides detailed information on installation, operation, features like Night Setback (NSB) and Valve Protection, jumper settings, and technical specifications for heating and cooling systems.</p>