

Theben RAMSES 784

Theben Ramses 784 Programmable Analog Thermostat User Manual

Model: RAMSES 784 (7840030)

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Theben Ramses 784 programmable analog thermostat. This device is designed to precisely monitor and regulate ambient room temperature based on programmed daily or weekly schedules, ensuring optimal comfort and energy efficiency. It operates on battery power.



Image 1.1: Front view of the Theben Ramses 784 thermostat, showing the analog clock and control dials.

The Ramses 784 features an analog clock for time-based programming and electronic temperature regulation. Its user-friendly design allows for straightforward adjustment of comfort and reduced temperature settings, as well as easy selection of operating modes.

2. SAFETY INFORMATION

Please read these safety instructions carefully before installation and operation. Failure to follow these instructions may result in property damage, personal injury, or electric shock.

- **Electrical Installation:** Installation should only be performed by a qualified electrician in accordance with local electrical codes and regulations.
- **Power Disconnection:** Always disconnect power to the heating system at the main circuit breaker before performing any wiring or maintenance.
- **Battery Handling:** Use only the specified battery type (2 AA). Do not mix old and new batteries, or different types of batteries. Dispose of used batteries responsibly.
- **Moisture:** Do not expose the thermostat to water or excessive moisture.
- **Cleaning:** Clean the thermostat with a dry, soft cloth. Do not use abrasive cleaners or solvents.

3. PRODUCT FEATURES

The Theben Ramses 784 thermostat offers the following key features:

- **Analog Clock:** Provides precise time-based control for programmed temperature adjustments.
- **Electronic Temperature Regulation:** Ensures accurate and stable room temperature control.
- **Battery Powered:** Operates on 2 AA batteries, offering flexibility in placement.
- **Simple Programming:** Daily and weekly schedules are easily set using plug-in riders.
- **Multiple Operating Modes:** Select from permanent reduced temperature, permanent comfort temperature, automatic mode, or frost protection.
- **Battery Replacement Indicator:** A visual indicator alerts you when batteries need to be replaced.
- **Adjustable Temperatures:** Comfort and reduced temperature settings can be adjusted independently to suit user preferences.

Climate control



Image 3.1: Illustration depicting climate control and energy saving benefits.

4. PACKAGE CONTENTS

The package for the Theben Ramses 784 thermostat typically includes:

- Theben Ramses 784 Thermostat Unit
- Mounting hardware (screws, wall plugs)
- Instruction Manual

Note: 2 AA batteries are required for operation and are not included in the package.

5. SETUP AND INSTALLATION

Proper installation is crucial for the thermostat's performance. Refer to the wiring diagrams and consult a qualified electrician if you are unsure about any steps.

5.1. Mounting Location

Choose a suitable location on an interior wall, away from direct sunlight, drafts, heat sources (e.g., radiators, lamps), and windows. The recommended mounting height is approximately 1.5 meters (5 feet).

from the floor.

5.2. Wiring

Before wiring, ensure the main power supply to your heating system is switched off. The Ramses 784 is designed for wall mounting and connects to your heating system's control circuit.

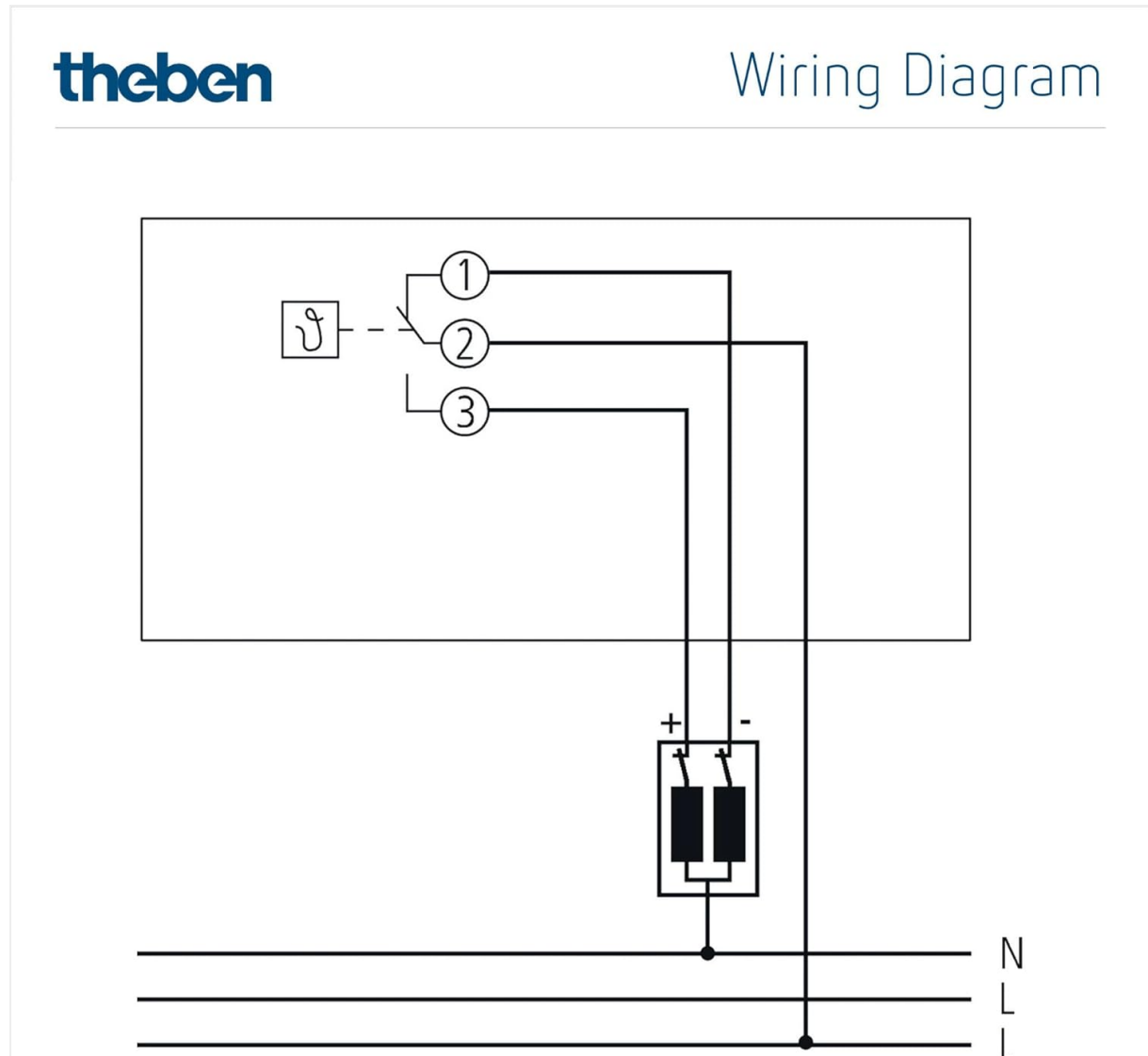


Image 5.1: Wiring Diagram for typical heating system connection. Consult a professional for installation.

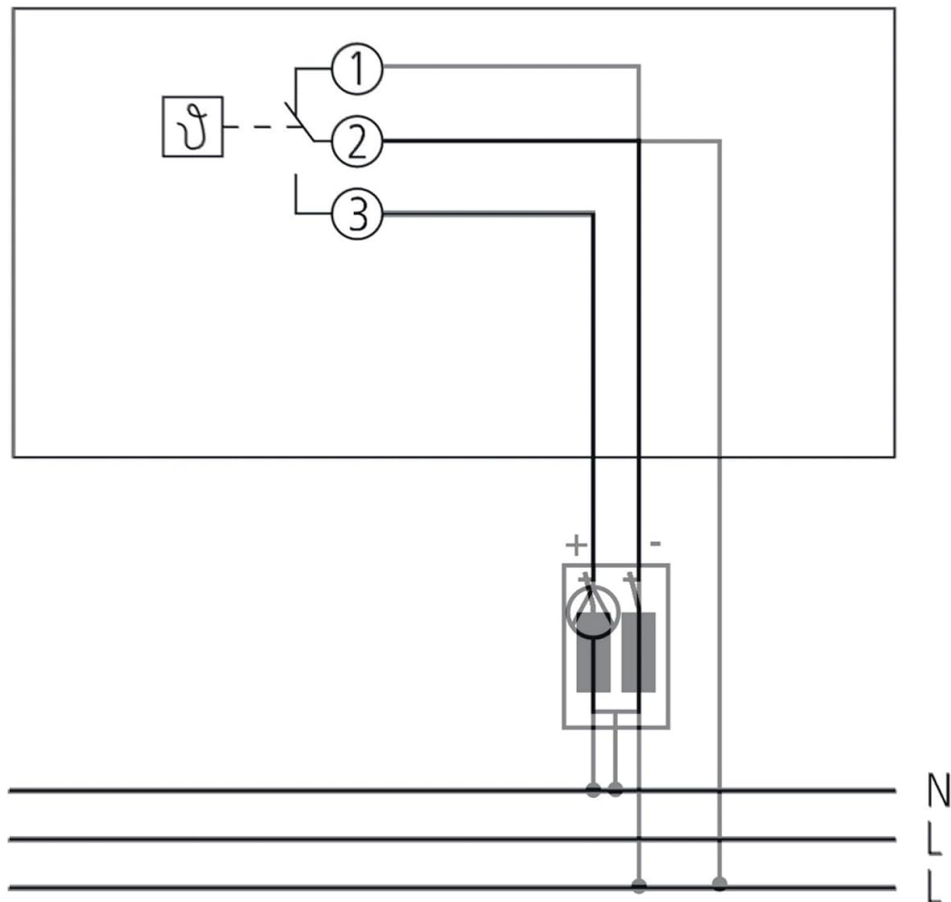


Image 5.2: Alternative Wiring Diagram for specific heating system configurations. Consult a professional for installation.

The diagrams illustrate the connection points for the thermostat. Typically, terminals 1, 2, and 3 are used for connecting to the heating system. Ensure all connections are secure and correctly insulated.

5.3. Battery Installation

Open the battery compartment, usually located on the back or side of the unit. Insert 2 AA batteries, observing the correct polarity (+/-). Close the compartment securely.

6. OPERATING INSTRUCTIONS

The Ramses 784 offers various operating modes and temperature adjustments.

6.1. Mode Selection

Use the mode selector switch or dial (often marked with symbols like sun, moon, clock, snowflake) to choose your desired operating mode:

- **Automatic Mode (Clock Symbol):** The thermostat follows the programmed daily/weekly schedule.
- **Permanent Comfort Temperature (Sun Symbol):** The heating system maintains the set comfort temperature continuously.
- **Permanent Reduced Temperature (Moon Symbol):** The heating system maintains the set reduced temperature continuously.
- **Frost Protection (Snowflake Symbol):** The thermostat maintains a minimum temperature (e.g.,

5°C) to prevent pipes from freezing.

6.2. Temperature Adjustment

Two separate dials or controls are typically available for setting temperatures:

- **Comfort Temperature:** Set this to your desired temperature during active periods (e.g., 20°C - 22°C).
- **Reduced Temperature:** Set this to a lower temperature for inactive periods or overnight (e.g., 16°C - 18°C).

7. PROGRAMMING

The Ramses 784 uses an analog clock and plug-in riders for programming daily and weekly schedules.

7.1. Setting the Current Time

Rotate the outer ring of the analog clock until the current time aligns with the reference mark (usually a small arrow or line on the thermostat housing).

7.2. Setting Daily/Weekly Programs

The clock face is surrounded by segments or holes where small plug-in riders are inserted. Each rider typically represents a time interval (e.g., 15 minutes or 30 minutes).

- **To activate Comfort Temperature:** Insert a rider into the corresponding time segment.
- **To activate Reduced Temperature:** Remove a rider from the corresponding time segment, or ensure no rider is present.

The thermostat will automatically switch between comfort and reduced temperatures based on the presence or absence of these riders as the clock rotates.

8. MAINTENANCE

8.1. Battery Replacement

When the battery replacement indicator light illuminates, it is time to replace the batteries. Open the battery compartment, remove the old batteries, and insert new 2 AA batteries, ensuring correct polarity. The indicator light should turn off.

8.2. Cleaning

Wipe the thermostat's exterior with a soft, dry cloth. Do not use liquid cleaners, sprays, or abrasive materials, as these can damage the unit.

9. TROUBLESHOOTING

If you encounter issues with your Theben Ramses 784 thermostat, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Thermostat not responding / No heating	Dead batteries; Incorrect wiring; Heating system fault; Incorrect mode selection.	Replace batteries; Check wiring (consult electrician); Check heating system; Ensure thermostat is in Automatic or Comfort mode.
Battery indicator light is on	Low battery power.	Replace both AA batteries.
Programmed schedule not followed	Thermostat not in Automatic mode; Incorrect rider placement; Incorrect current time setting.	Set thermostat to Automatic mode; Verify riders are correctly inserted/removed for desired times; Adjust current time on the analog clock.
Inaccurate temperature reading	Thermostat exposed to drafts or heat sources; Sensor obstruction.	Relocate thermostat if possible; Ensure no objects are blocking the sensor vents.

If the problem persists after attempting these solutions, please contact Theben customer support or a qualified technician.

10. SPECIFICATIONS

Detailed technical specifications for the Theben Ramses 784 thermostat:

Specification	Value
Manufacturer	Theben
Model Number	7840030
Dimensions (L x W x H)	9 x 3.6 x 15 cm
Weight	230 grams
Power Source	2 AA Batteries (not included)
Color	White
Style	Programmable Analog
Mounting Type	Wall Mount
Control Type	Manual Control
Specific Use	Temperature Control

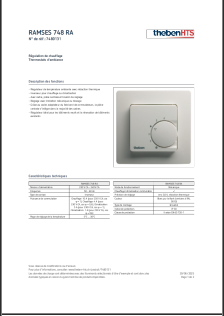



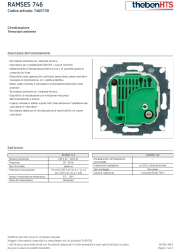



Image 10.1: Technical drawing showing the dimensions of the Theben Ramses 784 thermostat.

11. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact your retailer. Theben provides customer support for product inquiries and technical assistance. Contact details can typically be found on the manufacturer's official website or through your point of purchase.

Related Documents - RAMSES 784

	Theben RAMSES 748 RA Room Thermostat - Technical Specifications and Features Detailed technical specifications, functions, and wiring diagrams for the Theben RAMSES 748 RA room thermostat, a mechanical thermostat for heating and cooling systems.
	Theben-timer 27 Analog Programmable Timer - Technical Specifications and Features Detailed technical specifications, features, and connection diagrams for the Theben-timer 27 analog programmable timer. This device offers weekly programming for time and light control.

	<p>Theben RAMSES 746 Room Thermostat - Technical Specifications and Features</p> <p>Detailed technical information and features for the Theben RAMSES 746 room thermostat, including operating voltage, switching capacity, temperature setting range, and technical data. Learn about its functionality for climate control and heating/cooling systems.</p>
	<p>Theben SYN 269 h Analog Timer Switch - Technical Specifications and Features</p> <p>Detailed technical specifications, features, and dimensions for the Theben SYN 269 h analog timer switch. This device offers daily or weekly programming for time and light control, with a 1-channel output and various operational modes.</p>
	<p>Theben RAM706S : Thermostat d'Ambiance Électronique - Spécifications Techniques et Caractéristiques</p> <p>Découvrez le thermostat d'ambiance électronique Theben RAM706S. Ce document présente ses caractéristiques techniques, ses fonctionnalités, son schéma de raccordement et les accessoires compatibles, idéal pour le contrôle de température de divers systèmes de chauffage.</p>
	<p>Theben ZS 600 DCF EIB: Emittente per segnale orario - Specifiche Tecniche</p> <p>Specifiche tecniche dettagliate per l'emittente per segnale orario Theben ZS 600 DCF EIB, che coprono caratteristiche, programma di applicazione, oggetti di comunicazione, parametri e uso.</p>