COMPUTHERM Q7

COMPUTHERM Q7 Programmable Digital Room Thermostat User Manual

Model: Q7

1. INTRODUCTION

The COMPUTHERM Q7 is a programmable digital room thermostat designed to control heating and air conditioning systems. It allows for precise temperature regulation and offers multiple programming options to optimize comfort and energy efficiency. This manual provides detailed instructions for installation, operation, and programming of your Q7 thermostat.

Computherm Thermostat

0,5 °C

5 - 40 °C

24 - 250 V

6 programs

Image 1.1: The COMPUTHERM Q7 thermostat highlighting key features such as 0.5°C temperature increments, compatibility with heating/cooling systems, a temperature range of 5-40°C, 24-250V power compatibility, and 6 daily programs.

2. SAFETY INFORMATION

- Always disconnect power to the heating/cooling system at the main circuit breaker before installing or servicing the thermostat.
- Installation should be performed by a qualified electrician or heating engineer if you are unsure about the wiring process.
- Do not expose the thermostat to direct sunlight, extreme temperatures, or high humidity.
- Ensure the thermostat is mounted at an appropriate height (approximately shoulder height) in the living area for accurate temperature readings.

3. PACKAGE CONTENTS

Please check the package for the following items:

- COMPUTHERM Q7 Programmable Digital Room Thermostat

- Instruction Manual
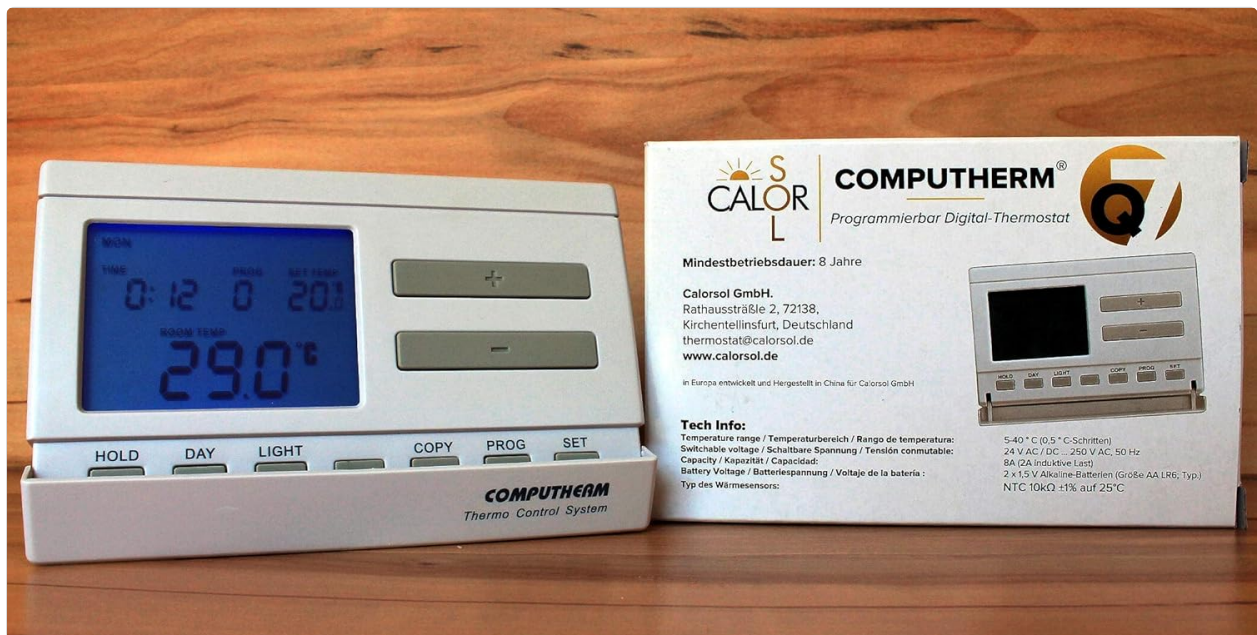- Mounting accessories (screws, wall plugs)

Image 3.1: The COMPUTHERM Q7 thermostat shown alongside its retail packaging.

4. PRODUCT OVERVIEW

The COMPUTHERM Q7 thermostat features a clear digital display and intuitive buttons for easy operation.
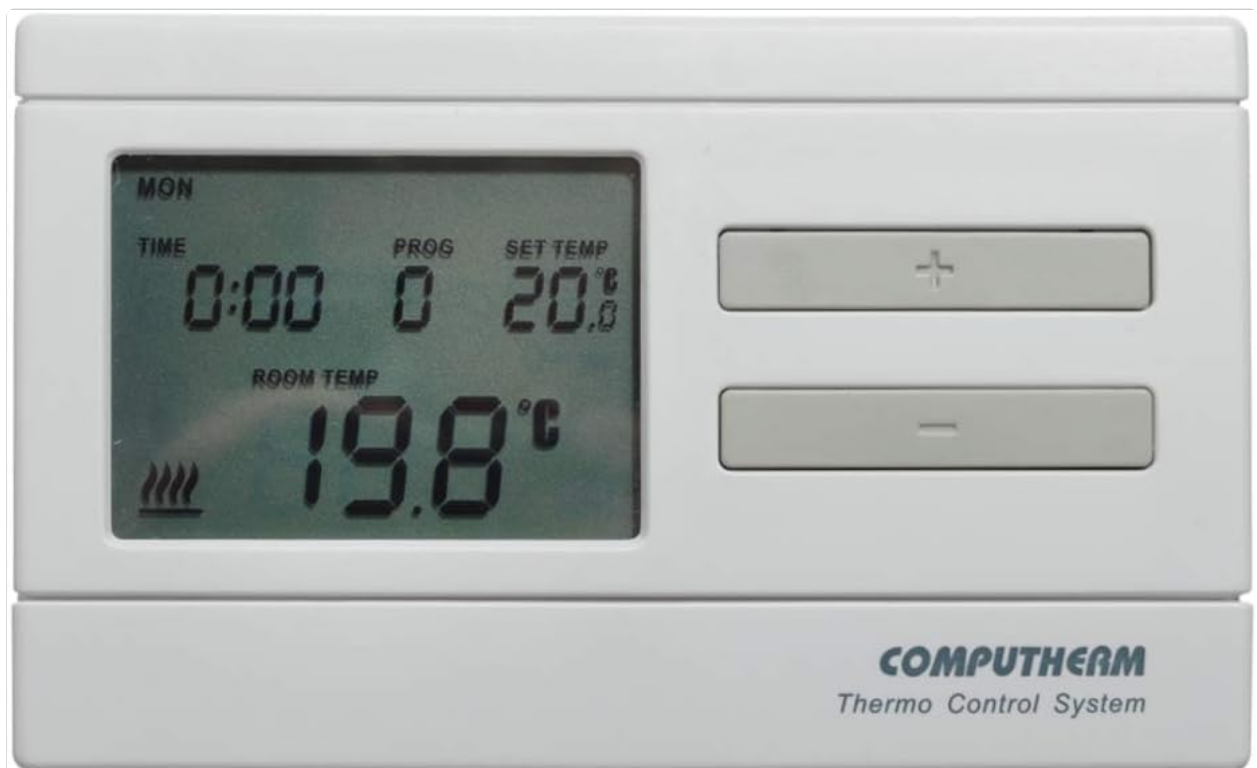

Image 4.1: Front view of the COMPUTHERM Q7 thermostat, showing the digital display with time, program number, set temperature, and room temperature, along with the '+' and '-' adjustment buttons.

4.1. Display Elements

- **MON/TUE/WED/THU/FRI/SAT/SUN:** Day of the week indicator.
- **TIME:** Current time.

- **PROG:** Current program number (0-6).

- **SET TEMP:** Desired temperature.

- **ROOM TEMP:** Current room temperature.

- **Heating/Cooling Indicator:** Icon indicating active heating or cooling.

4.2. Buttons

- **+:** Increase value, navigate forward.

- **-:** Decrease value, navigate backward.

- **HOLD:** Activates/deactivates permanent manual temperature hold.

- **DAY:** Used for setting day/time and short-term programs.

- **LIGHT:** Activates backlight, adjusts backlight behavior.

- **COPY:** Copies program settings between days.

- **PROG:** Enters/confirms program settings.

- **SET:** Confirms settings, exits menus, cancels manual modes.

5. INSTALLATION

Proper installation is crucial for the thermostat's performance. Ensure power is disconnected before proceeding.

5.1. Mounting the Thermostat

1. Choose a suitable location on an interior wall, away from direct sunlight, drafts, and heat sources. The recommended height is approximately shoulder height.

2. Separate the front panel from the back plate of the thermostat.

3. Mark the drilling points on the wall using the back plate as a template.

4. Drill holes and insert wall plugs.

5. Secure the back plate to the wall with screws.

Image 5.1: The COMPUTHERM Q7 thermostat installed on a wall in a typical home environment, demonstrating its discreet design.

5.2. Wiring

The COMPUTHERM Q7 thermostat requires two AA batteries for power and connects to your heating/cooling system via two wires.

1. Ensure the main power supply to your heating/cooling system is OFF.
2. Connect the two wires from your boiler or heating/cooling system to connectors **1** and **2** on the thermostat's back plate. The polarity of these connections does not matter.
3. Connector 3 is typically not used for standard installations.
4. Once wired, carefully attach the front panel of the thermostat to the back plate.

Image 5.2: Rear view of the COMPUTHERM Q7 thermostat, illustrating the battery compartment and the wiring terminals (1, 2, 3) for connection to the heating/cooling system.

5.3. Battery Installation

The thermostat is powered by 2 AA batteries.

1. Open the battery compartment on the back of the thermostat.

2. Insert two AA batteries, ensuring correct polarity (+/-).

3. Close the battery compartment.

6. INITIAL SETUP

6.1. Resetting the Thermostat

If you need to reset the thermostat to factory settings, locate the small black 'Reset' button inside the battery compartment. Press and hold this button for approximately 5 seconds. The display will clear and reset.

6.2. Setting Date and Time

1. Press the **DAY** button. The day of the week will start flashing.

2. Use the **+** or **-** buttons to select the current day.

3. Press the **DAY** button again. The hour will start flashing.

4. Use the **+** or **-** buttons to set the current hour.

5. Press the **DAY** button again. The minutes will start flashing.

6. Use the **+** or **-** buttons to set the current minutes.

7. Press the **SET** button to save the date and time settings.

7. OPERATING MODES & PROGRAMMING

7.1. Manual Temperature Adjustment (Temporary Override)

To temporarily adjust the temperature until the next programmed period:

1. In normal operating mode, use the **+** or **-** buttons to set your desired temperature.
2. A hand symbol will appear on the display, indicating manual mode.
3. After approximately 5 seconds, the new temperature will be set. The clock display will alternate between the current time and 'Time Left', showing the duration until the next programmed period.
4. This manual setting will automatically cancel when the next programmed period begins.
5. To cancel manual mode before the next program, press the **SET** button.

7.2. Hold Temperature (Permanent Manual Mode)

To maintain a specific temperature indefinitely:

1. Use the **+** or **-** buttons to set your desired temperature.
2. Press the **HOLD** button. A key symbol will appear on the display.
3. The thermostat will maintain this temperature until you manually cancel it.
4. To cancel the hold function, press the **SET** button.

7.3. Programming Daily Schedules (P0-P6)

The thermostat allows for 6 programmable periods (P0 to P6) per day. Program P0 is fixed at 00:00 and only its temperature can be adjusted.

1. Press and hold the **SET** button, then simultaneously press the **PROG** button. The day of the week will start flashing.
2. Use the **+** or **-** buttons to select the day(s) you wish to program (you can select multiple days if they are all flashing).
3. Press **PROG**. The desired temperature for Program 0 (P0) will flash (time is fixed at 00:00).
4. Use the **+** or **-** buttons to set the desired temperature for P0.
5. Press **PROG** to move to Program 1 (P1). The hour for P1 will flash.
6. Use the **+** or **-** buttons to set the desired hour for P1.
7. Press **PROG**. The temperature for P1 will flash.
8. Use the **+** or **-** buttons to set the desired temperature for P1.
9. Repeat steps 6-8 for Programs P2 through P6.
10. After setting all desired programs, press the **SET** button to save and exit programming mode.

Deleting a Program Interval

To delete a specific program interval (P1-P6), set its time to ' - - : - - ' (which appears when you set the time to 00:00 during programming). Then press **SET** to save.

7.4. Copying Programs

To copy program settings from one day to another:

1. Press and hold the **COPY** button for 3 seconds until the day of the week starts flashing.
2. Use the **+** or **-** buttons to select the source day (the day you want to copy from).
3. Press **COPY**. The selected day will stop flashing.

4. Use the **+** or **-** buttons to select the destination day(s) (the day(s) you want to copy to).

5. Press **COPY** to apply the copy. Repeat for additional destination days if needed.

6. Press the **SET** button to confirm and save the copied programs.

7.5. Short-Term Program (1-9 Hours)

This function allows you to set a temporary temperature for a specific number of hours (1 to 9).

1. Use the **+** or **-** buttons to set the desired temperature for the short-term period.

2. Press the **DAY** button. A suitcase symbol will appear, and the hour display will flash.

3. Use the **+** or **-** buttons to select the number of hours (1 to 9).

4. Wait for approximately 5 seconds for the setting to save automatically. The clock display will alternate between the current time and 'Time Left', showing the remaining duration.

5. This program will automatically cancel after the set hours, and the thermostat will revert to its regular schedule.

6. To cancel this function manually, press the **SET** button.

7.6. Holiday Program (1-99 Days)

This function allows you to set a specific temperature for an extended period (1 to 99 days), useful when you are away from home.

1. Use the **+** or **-** buttons to set the desired temperature for your holiday period.

2. Press and hold the **HOLD** button for 3 seconds. Initially, a key symbol will appear, then a suitcase symbol will appear, and the day display will flash.

3. Use the **+** or **-** buttons to select the number of days (1 to 99).

4. Wait for approximately 5 seconds for the setting to save automatically. The clock display will alternate between the current time and 'Time Left', showing the remaining days.

5. This program will automatically cancel after the set days, and the thermostat will revert to its regular schedule.

6. To cancel this function manually, press the **SET** button.

7.7. HEAT/COOL Mode Selection

The thermostat can operate in either heating or cooling mode.

1. Press and hold the **SET** button, then simultaneously press the **COPY** button. 'HEAT' or 'COOL' will appear on the display.

2. Use the **+** or **-** buttons to switch between 'HEAT' (for heating systems) and 'COOL' (for air conditioning systems).

3. Press the **SET** button to save your selection.

- In **HEAT** mode: The connected appliance (e.g., boiler) will activate when the room temperature falls below the desired temperature.

- In **COOL** mode: The connected appliance (e.g., air conditioner) will activate when the room temperature rises above the desired temperature.

7.8. Backlight Settings

The **LIGHT** button controls the display backlight.

- A short press of the **LIGHT** button will illuminate the display for approximately 10 seconds.
- To change the backlight behavior, press and hold the **LIGHT** button for 5 seconds. 'L:ON' or 'L:OF' will appear on the display.
- Use the **+** or **-** buttons to toggle between:
    - **L:ON:** The backlight will illuminate with every button press.
    - **L:OF:** The backlight will only illuminate when the **LIGHT** button is pressed.
- Press **SET** to confirm your selection. Note that 'L:ON' mode will consume batteries faster.

7.9. Switching Sensitivity Adjustment

This setting determines the temperature differential before the heating/cooling system activates or deactivates.

1. Press the **DAY** button, then immediately press the **COPY** button.
2. Use the **+** or **-** buttons to select the desired sensitivity: 'S:1', 'S:2', or 'S:3'.
3. Press **SET** to confirm.

- **S:1:** Sensitivity of ±0.1°C. For a target of 20°C, heating activates at 19.9°C and deactivates at 20.1°C.
- **S:2:** Sensitivity of ±0.2°C. For a target of 20°C, heating activates at 19.8°C and deactivates at 20.2°C.
- **S:3:** Sensitivity of ±0.3°C. For a target of 20°C, heating activates at 19.7°C and deactivates at 20.3°C.

7.10. Temperature Calibration

You can calibrate the thermostat's temperature reading to match a reference thermometer or to compensate for its location.

1. Press the **DAY** button, then immediately press the **HOLD** button.
2. Use the **+** or **-** buttons to adjust the temperature offset (e.g., -1.0°C to make the thermostat read 1°C lower).
3. Press **SET** to confirm. The change will take effect after approximately 10 seconds.

7.11. Pump Protection Function

This function helps prevent damage to your heating system's pump during periods of inactivity.

1. Press the **DAY** button, then immediately press the **PROG** button.
2. Use the **+** or **-** buttons to select 'HP:ON' or 'HP:OF'.
3. Press **SET** to confirm.

- **HP:ON:** The pump will automatically run for 1 minute each day, even if no heating is scheduled, to prevent seizing.
- **HP:OF:** Pump protection is disabled.

7.12. Button Lock

To prevent accidental changes, you can lock the thermostat buttons.

1. To lock the buttons, press the **+** and **-** buttons simultaneously for 5 seconds. A lock symbol will appear.
2. To unlock the buttons, press the **+** and **-** buttons simultaneously for 5 seconds again. The lock symbol will disappear.

8. MAINTENANCE

8.1. Battery Replacement

When the battery low indicator appears on the display, replace the batteries promptly to ensure continuous operation. Refer to section 5.3 for battery installation instructions.

8.2. Cleaning

Clean the thermostat's exterior with a soft, dry cloth. Do not use abrasive cleaners, solvents, or spray directly onto the device.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank or dim.	Low or dead batteries.	Replace batteries (see Section 8.1).
Heating/Cooling system not responding.	Incorrect wiring. System power off. Thermostat in wrong mode (HEAT/COOL).	Check wiring connections (see Section 5.2). Ensure main power to system is on. Verify HEAT/COOL mode (see Section 7.7).
Temperature not maintained accurately.	Incorrect switching sensitivity. Thermostat location affected by drafts/heat sources.	Adjust switching sensitivity (see Section 7.9). Consider relocating thermostat or using temperature calibration (see Section 7.10).
Buttons are unresponsive.	Buttons are locked.	Unlock buttons (see Section 7.12).

10. SPECIFICATIONS

Feature	Specification
Model	Q7
Power Source	2 x AA batteries
Temperature Range	5°C to 40°C
Temperature Increment	0.5°C
Switching Sensitivity	±0.1°C, ±0.2°C, or ±0.3°C
Load Capacity	8 Amps / max. 1760W
Dimensions (L x W x H)	14 x 3.99 x 10.01 cm
Weight	168 g

Feature	Specification
Controller Type	Programmable
Specific Uses	Underfloor heating, general heating, air conditioning

11. WARRANTY & SUPPORT

The COMPUTHERM Q7 thermostat comes with a **2-year manufacturer's warranty** from the date of purchase. Please retain your proof of purchase for warranty claims.

For technical support or warranty inquiries, please refer to the contact information provided with your product packaging or visit the official COMPUTHERM website.

Related Documents - Q7

	[COMPUTHERM Q7RF Programmable Wireless Digital Room Thermostat Operating Instructions](#) Comprehensive operating instructions for the COMPUTHERM Q7RF programmable wireless digital room thermostat. Learn about installation, programming, features, and technical specifications for efficient home climate control.
	[COMPUTHERM Q20RF Programmable Wireless Digital Room Thermostat Operating Instructions](#) Comprehensive operating instructions for the COMPUTHERM Q20RF programmable wireless digital room thermostat, detailing installation, setup, features, and technical specifications for efficient climate control.
	[COMPUTHERM E280 Wi-Fi Thermostat Instruction Manual](#) User manual for the COMPUTHERM E280 programmable digital Wi-Fi thermostat. Covers installation, setup, features, and operation for heating and cooling systems.
	[COMPUTHERM Q20 Programmable Digital Room Thermostat Operating Instructions](#) Comprehensive operating instructions for the COMPUTHERM Q20 programmable digital room thermostat, covering installation, setup, features, and technical specifications for optimal home climate control and energy efficiency.
	[FGK C7RF Digital Radio Thermostat Manual - Installation, Programming, and Operation Guide](#) This manual provides detailed instructions for the FGK C7RF digital radio thermostat, covering installation, programming weekly schedules, manual operation modes, battery replacement, receiver setup, and technical specifications for efficient home climate control.

[COMPUTHERM DS5 Magnetic Dirt Separator Operating Instructions and Technical Data](#)

Detailed operating instructions, installation guide, and technical specifications for the COMPUTHERM DS5 series magnetic dirt separators (DS5-20, DS5-20B, DS5-25, DS5-25B) by QUANTRAX Ltd.