

## Coiwsei STN7105

# Coiwsei STN7105-White Programmable Thermostat Instruction Manual

Model: STN7105

## 1. INTRODUCTION AND OVERVIEW

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This manual provides detailed instructions for the installation, operation, and maintenance of your Coiwsei STN7105-White Programmable Thermostat. This thermostat is designed for conventional single-stage heating and cooling systems (1 Heat/1 Cool). Please read this manual thoroughly before installation and use to ensure proper function and safety.

### Key Features:

- Large, clear, easy-to-read backlight LCD display.
- 7-day, 5/1/1 programmable schedule for energy efficiency.
- Separate heating and cooling swing (cycle rate) adjustments.
- Room temperature calibration adjustment.
- Heating and cooling setpoint limits.
- 5-minute compressor delay protection (selectable ON or OFF).
- Filter change indicator (selectable ON or OFF).

## Wall Thermostat

***It features contemporary design, clear, backlit temperature indicators that are visible from a distance, and large temperature buttons that are easy to use.***



Image: Coiwsei STN7105-White thermostat highlighting its high-performance features.

## 2. PACKAGE CONTENTS

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Verify that all items are included in your package:

- 1 x Coiwsei STN7105-White Thermostat
- 1 x Wall Plate
- 1 x Installation and Operating Manual
- 2 x Screws and Anchors
- 1 x Cable Label Set

## 3. SYSTEM COMPATIBILITY

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The Coiwsei STN7105-White thermostat is designed for use with specific HVAC systems. Please confirm your system's compatibility before installation.

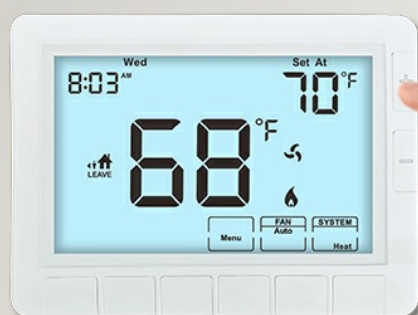
### Compatible Systems:

- Forced air (gas, oil, or electric)
- Electric furnace
- Hot water steam or gravity radiant heat
- Heat only systems
- Heat pump without auxiliary or emergency heat
- Millivolt systems
- Gas fireplaces (24V)
- Floor or wall furnaces
- Cool only systems
- Single-stage cooling systems

### Not Compatible With:

- Heat pump with auxiliary or emergency heat
- Dual fuel/hybrid heating systems
- Electric baseboard heat (110-240 volts)
- Line voltage systems
- Convector
- Radiant-ceiling heat
- Mini split systems
- 12V RV systems
- Multi-stage cooling or heating systems

### **Premium Thermostat with Backlit Display**



- It features easy-to-read large clear backlit display and precision temperature accuracy of 1 degree, can be installed and operated easily by follow the instruction guide.

Image: Compatibility chart for the thermostat with various HVAC systems.

## 4. INSTALLATION GUIDE

### Safety Precautions:

- Turn off power to the heating and cooling system at the main fuse or circuit breaker panel before beginning installation.
- Ensure all wiring is done according to local electrical codes.

### 4.1 Removing Your Old Thermostat

1. Turn off the power to your heating and cooling system.
2. Remove the cover of your old thermostat.
3. Take a picture of the wiring connections for reference.

4. Label each wire with the corresponding terminal letter using the provided cable labels.
5. Disconnect the wires and remove the old thermostat's wall plate.

## 4.2 Mounting the New Thermostat

1. Position the new wall plate against the wall where the old thermostat was.
2. Mark the mounting holes.
3. Drill pilot holes if necessary and insert wall anchors.
4. Feed the wires through the opening in the new wall plate.
5. Secure the wall plate to the wall using the provided screws.

## 5. WIRING INSTRUCTIONS

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Connect the labeled wires from your system to the corresponding terminals on the thermostat's wall plate. Refer to the diagram below and your old thermostat's wiring photo.

### Wiring Terminal Definitions

Terminal	Description
C	Common 24VAC (system power supply)
O	Reversing Valve Cool
B	Reversing Valve Heat
W	Heat Relay
RH	24VAC (system power supply for heating)
RC	24VAC (system power supply for cooling)
G	Fan Relay
Y	Cool Relay

**Important:** If your system has both RH and RC wires, remove the metal jumper wire located between the RH and RC terminals. If only one R wire is present, keep the jumper in place.

**Power Source:** The thermostat can be powered by the 24VAC system (C-wire) or by 2 AA 1.5V alkaline batteries (not included). If a C-wire is not available, batteries provide backup power to maintain settings during power outages.



- **Time and Day:** Top left corner.
- **System Mode:** Indicated by icons or text (Heat, Cool, Off, Auto).
- **Fan Mode:** Indicated by icons or text (Auto, On).
- **Low Battery Indicator:** Appears when 2 AA batteries are low and need replacement.

## 6.2 Basic Operation

1. **Power On/Off:** Use the SYSTEM button to cycle through modes (Heat, Cool, Off).
2. **Adjusting Temperature:** Use the large Up (+) and Down (-) buttons on the right side of the thermostat to change the desired set temperature. The temperature range is 44°F to 90°F (7°C to 32°C).
3. **Fan Control:** Press the FAN button to select between "Auto" (fan runs only when heating/cooling is active) or "On" (fan runs continuously).
4. **System Mode Selection:** Press the SYSTEM button to choose between:
  - **HEAT:** Thermostat controls the heating system.
  - **COOL:** Thermostat controls the cooling system.
  - **OFF:** Heating and cooling systems are off.
  - **AUTO:** (If available and configured) Thermostat automatically switches between heating and cooling to maintain the set temperature. *Note: Some models may require manual switching between Heat and Cool modes. Refer to programming section for auto changeover settings.*

## 7. PROGRAMMING YOUR THERMOSTAT

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The STN7105-White thermostat offers 7-day, 5/1/1 programmable scheduling to optimize comfort and energy savings. Use the "Menu" button to access programming options.

Detailed programming steps are provided in the included Installation and Operating Manual. Generally, programming involves:

1. Setting the current time and day.
2. Selecting the programming mode (e.g., 7-day, 5/1/1).
3. Defining temperature setpoints for different periods (e.g., Wake, Leave, Return, Sleep) for each day or group of days.
4. Adjusting advanced settings such as:
  - Temperature calibration.
  - Heating/cooling cycle rate (swing).
  - Compressor delay protection (ON/OFF).
  - Filter change reminder (ON/OFF).

Refer to the specific programming section in your printed manual for step-by-step instructions on setting up your desired schedule and advanced features.

## 8. MAINTENANCE

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Your Cooiwsei STN7105-White thermostat requires minimal maintenance to ensure optimal performance.

- **Cleaning:** Wipe the thermostat's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** When the low battery indicator appears on the display, replace the 2 AA

alkaline batteries immediately. Ensure correct polarity.

- **Air Filter:** If the filter change indicator is enabled, replace your HVAC system's air filter when prompted. Reset the indicator after changing the filter (refer to your printed manual for specific steps).

## 9. TROUBLESHOOTING

If you experience issues with your thermostat, try the following troubleshooting steps:

### Common Issues and Solutions

Problem	Possible Cause / Solution
<b>Thermostat has no power / blank display.</b>	<ul style="list-style-type: none"><li>◦ Check if the main power to your HVAC system is on.</li><li>◦ Ensure batteries are correctly installed and not depleted. Replace if necessary.</li><li>◦ Verify C-wire connection if using system power.</li></ul>
<b>Heating/Cooling system does not turn on.</b>	<ul style="list-style-type: none"><li>◦ Check that the system mode is set to HEAT or COOL.</li><li>◦ Ensure the set temperature is above (for heat) or below (for cool) the current room temperature.</li><li>◦ Wait for the 5-minute compressor delay if recently switched modes.</li><li>◦ Check wiring connections for looseness.</li><li>◦ Verify system compatibility (refer to Section 3).</li></ul>
<b>Temperature reading seems inaccurate.</b>	<ul style="list-style-type: none"><li>◦ Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources.</li><li>◦ Perform a temperature calibration (refer to the programming section in your manual).</li></ul>
<b>Thermostat does not automatically switch between heating and cooling.</b>	<ul style="list-style-type: none"><li>◦ Confirm your specific model supports "Auto Changeover" and that it is enabled in the programming settings. Some models require manual mode selection.</li><li>◦ Ensure the temperature differential for auto changeover is correctly set.</li></ul>
<b>Heat/Cool runs past the set temperature.</b>	<ul style="list-style-type: none"><li>◦ Adjust the "swing" or "cycle rate" setting in the advanced programming menu. A smaller swing value means more frequent, shorter cycles.</li><li>◦ Ensure the thermostat is not located near a heat source or draft that could affect its sensor.</li></ul>

If these steps do not resolve the issue, please contact customer support.

## 10. SPECIFICATIONS

Feature	Detail
Brand	Coiwsei
Model Name	STN7105-White
Product Dimensions	1.02"D x 4.72"W x 3.54"H (2.6cm D x 12.0cm W x 9.0cm H)
Controller Type	Push Button
Special Features	Separate Heating and Cooling Swing (Cycle Rate), Low Battery Indicator
Color	White
Specific Uses	Heating and Cooling Controls
Temperature Control Type	Single-Stage Systems (1 Heat/1 Cool)
Power Source	24 VAC (Corded Electric) or 2 AA 1.5V Alkaline Batteries
Voltage	24 Volts (AC)
Material	Plastic
Display Type	LCD with Backlight
Mounting Type	Wall Mount
Temperature Range	44°F to 90°F (7°C to 32°C)

### What's in the Box Package Contents

- 1 x Thermostat
- 1 x Wall Plate
- 1 x Manual
- 1 x Wiring Labels
- 1 x Screw Sets

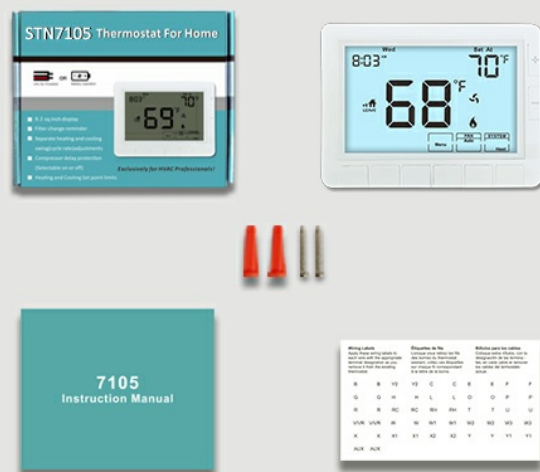


Image: Dimensions of the Coiwsei STN7105-White thermostat.

## 11. WARRANTY AND SUPPORT

Coiwsei products are manufactured with quality and reliability in mind. This product is backed by over 20 years of manufacturing experience.

For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please contact Coiwsei customer service. Customer service is available 7 days a week, 24 hours a day.

Please refer to the contact information provided in your product packaging or on the official Coiwsei website for the most up-to-date support details.