

White-Rodgers 1F85U-22PR

Emerson 1F85U-22PR Programmable Thermostat User Manual

Model: 1F85U-22PR

1. INTRODUCTION

This manual provides detailed instructions for the installation, setup, operation, and maintenance of your White-Rodgers Emerson 1F85U-22PR Programmable Thermostat. Please read this manual thoroughly before beginning installation or operation to ensure proper functionality and to maximize the benefits of your new thermostat.

2. PRODUCT OVERVIEW

The Emerson 1F85U-22PR is a programmable thermostat designed to provide precise control over your heating and cooling system. It features a large, clear display and user-friendly controls.

Key Features:

- **Large, Clear Display:** Easily readable in various lighting conditions.
- **Selectable Programming:** Offers 7-day, 5-1-1 day, or non-programmable options to suit your schedule.
- **Easy Installation:** Includes a built-in level indicator, pluggable terminals, and a streamlined configuration menu.
- **Advanced Functions:** Features keypad lock, adjustable temperature limits, and a backlight button.
- **Dual Fuel Compatibility:** Standard for dual fuel systems without requiring additional sensors.
- **Auto Changeover:** Automatically switches between heating and cooling modes as needed.
- **Filter Indicator:** Provides reminders for air filter replacement.

Thermostat Front View:

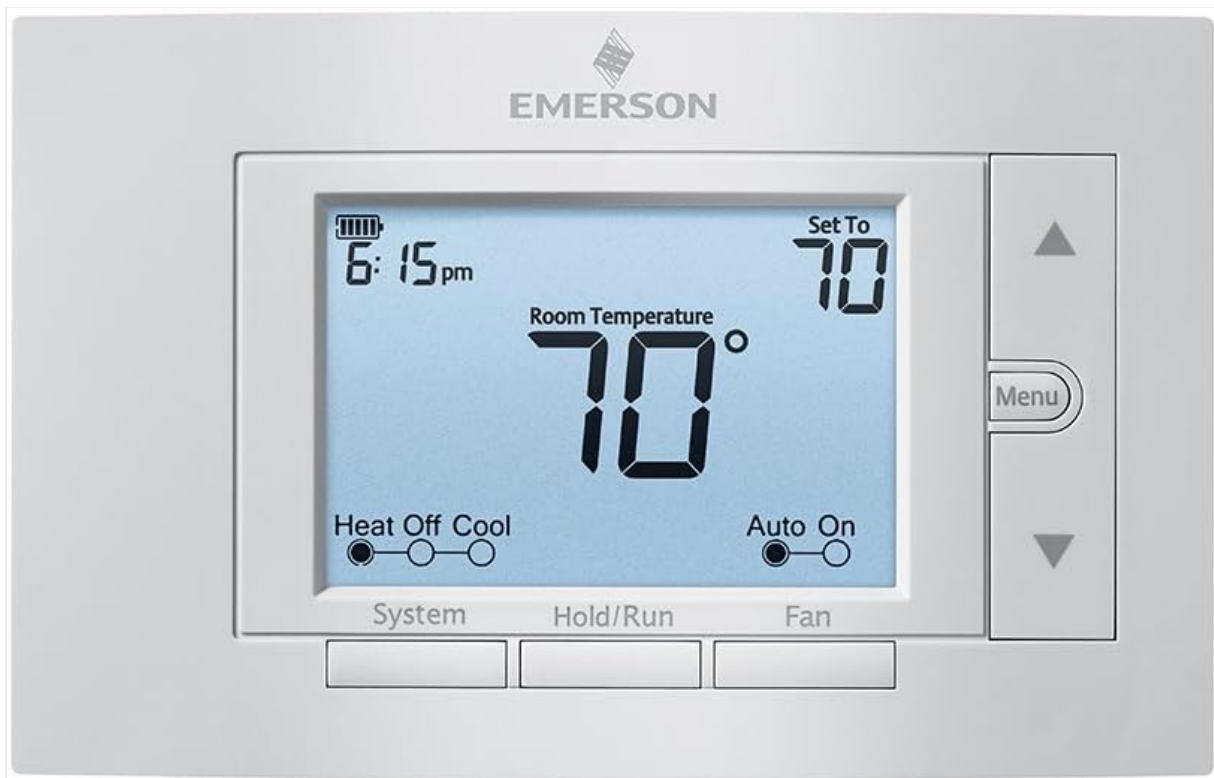


Figure 2.1: Front view of the thermostat, displaying current time, room temperature, set temperature, and system/fan status.

3. INSTALLATION

Proper installation is crucial for the optimal performance of your thermostat. If you are unsure about any steps, consult a qualified HVAC technician.

Safety Precautions:

- **Turn Off Power:** Always disconnect power to the heating and cooling system at the main fuse or circuit breaker before installing or servicing the thermostat.
- **Voltage:** This thermostat operates on 24 Volts AC. Ensure your system is compatible.

Included Components for Installation:

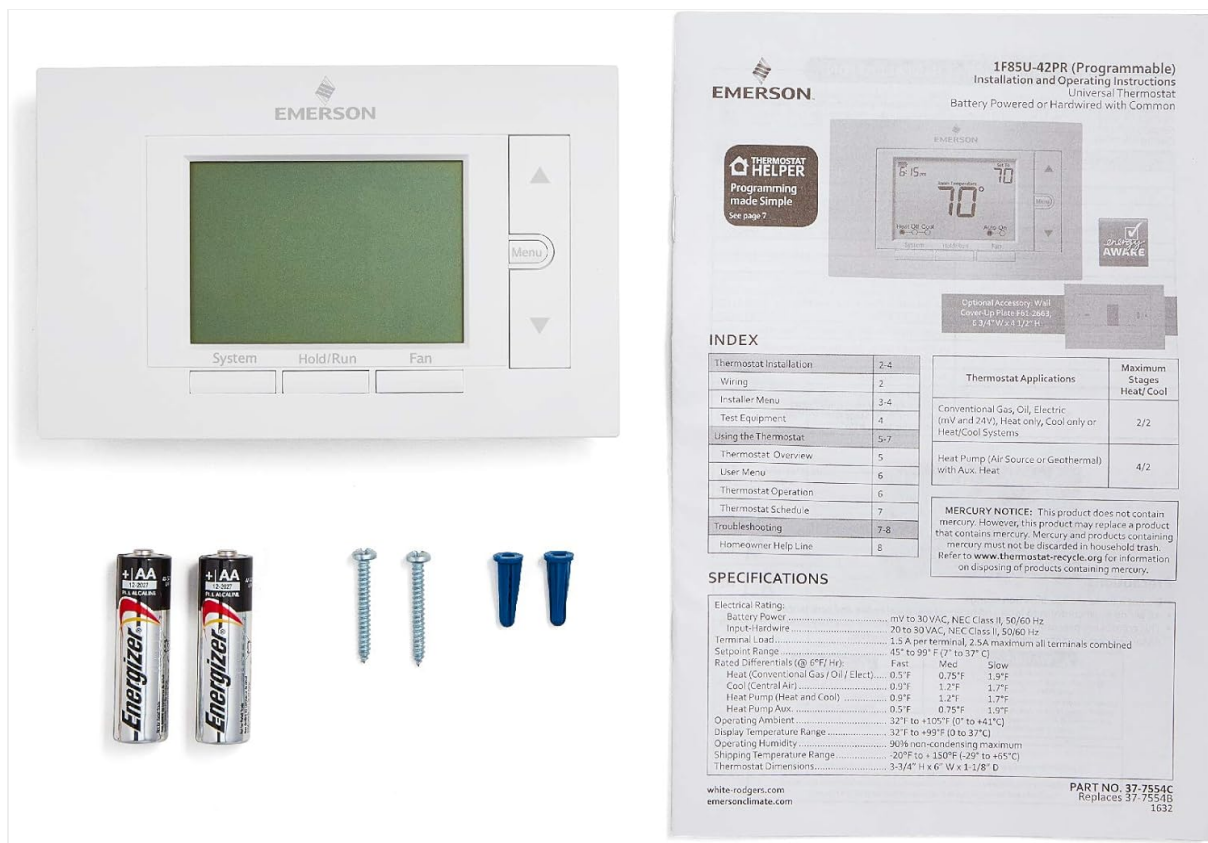


Figure 3.1: Typical contents of the thermostat package, including the thermostat, mounting hardware, and batteries.

- Thermostat Unit
- Mounting Screws and Wall Anchors
- 2 AA Alkaline Batteries
- Instruction Manual (physical copy)

Mounting and Wiring:

1. Remove the old thermostat (if applicable) and label existing wires.
2. Mount the new thermostat's backplate to the wall using the provided screws and anchors. The built-in level indicator assists with straight alignment.
3. Connect the system wires to the appropriate pluggable terminals on the backplate. Refer to the wiring diagram in the physical instruction manual for specific connections based on your HVAC system type.
4. Insert the two AA batteries into the designated compartment.
5. Attach the thermostat front unit to the mounted backplate.
6. Restore power to your HVAC system.

4. INITIAL SETUP AND CONFIGURATION

After installation, configure the thermostat for your specific heating and cooling system.

Accessing the Installer Menu:

To access advanced settings, hold the **Menu** button for approximately 8 seconds until the Installer Menu appears on the display.

Key Setup Options:

- **System Type:** Configure for conventional (gas/oil furnace, AC) or heat pump systems.
- **Programming Mode:** Select 7-day, 5-1-1 day (weekdays/weekend), or non-programmable operation.
- **Cycle Rate:** Adjust the frequency of heating/cooling cycles (consult your HVAC technician for optimal

settings).

- **Temperature Display:** Choose between Fahrenheit (°F) or Celsius (°C).

Navigate through the menu using the Up/Down arrows and confirm selections with the Menu button.

5. OPERATION

Understanding the thermostat's controls allows for efficient climate management.

Control Buttons:

- **System:** Toggles between Heat, Off, Cool, and Auto modes.
- **Hold/Run:** Switches between programmed schedule (Run) and holding a set temperature (Hold).
- **Fan:** Selects fan operation: Auto (fan runs only when heating/cooling) or On (fan runs continuously).
- **Menu:** Accesses programming options and advanced settings.
- **Up/Down Arrows:** Adjusts temperature settings and navigates through menu options.

Programming Your Schedule:

Press the **Menu** button and follow the on-screen prompts to set your desired heating and cooling schedules for each day or period, depending on your selected programming mode (7-day or 5-1-1 day).

Advanced Operational Features:

- **Keypad Lock:** Prevents unauthorized changes to settings. Activate/deactivate through the Menu.
- **Temperature Limits:** Set minimum and maximum allowable temperature settings to conserve energy or prevent extreme temperatures.
- **Backlight:** Press any button to illuminate the display for better visibility in low light.

6. MAINTENANCE

Regular maintenance ensures the longevity and accuracy of your thermostat.

Battery Replacement:

The thermostat uses two AA alkaline batteries. When the low battery indicator appears on the display, replace both batteries promptly to avoid loss of settings or system control. Open the battery compartment, remove old batteries, insert new ones observing polarity, and close the compartment.

Air Filter Reminder:

The thermostat features a filter indicator to remind you when it's time to check or replace your HVAC system's air filter. Follow your HVAC system manufacturer's recommendations for filter replacement frequency.

Cleaning:

Wipe the thermostat's exterior with a soft, slightly damp cloth. Do not use abrasive cleaners, solvents, or chemical sprays, as these can damage the display or internal components.

7. TROUBLESHOOTING

If you encounter issues with your thermostat, refer to the following common troubleshooting steps:

- **No Display:** Check if the two AA batteries are correctly installed and have sufficient charge. Ensure power to the HVAC system is on and wiring connections are secure.
- **System Not Responding:** Verify that the thermostat is set to the correct system mode (Heat, Cool, or Auto). Check that the desired temperature is set appropriately and that the keypad lock is not active.

- **Inaccurate Temperature Reading:** Ensure the thermostat is not located near heat sources (e.g., lamps, appliances) or in direct sunlight, which can affect temperature sensing. Avoid placing it in drafts.
- **Programming Issues:** If the schedule is not functioning as expected, re-enter the program settings through the Menu. Ensure the thermostat is in 'Run' mode, not 'Hold'.

For persistent problems or complex issues, it is recommended to contact a qualified HVAC service technician.

8. SPECIFICATIONS

Brand	White-Rodgers (Emerson Climate Technologies)
Model Number	1F85U-22PR
Product Dimensions	6"D x 1.13"W x 3.75"H
Power Source	AC (24 Volts)
Batteries	2 AA Alkaline batteries (included)
Display Type	LCD, 5 Inches Screen Size
Control Type	Button Control, Touch
Special Features	Auto Changeover, Filter Indicator, Lighted, Lockable, Programmable
Mounting Type	Wall Mount
Connectivity Technology	Wi-Fi (for compatible systems/features)
Item Weight	9.9 ounces
UPC	786710551888

9. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the documentation included with your product or visit the official White-Rodgers / Emerson Climate Technologies website. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

For technical assistance, product registration, or to locate authorized service providers, please consult the contact information provided in your product packaging or on the manufacturer's website.