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› [Emerson](#) /

› [Emerson 70 Series 7-Day Programmable Heat Pump Thermostat \(Model 1F75H-21PR\) Instruction Manual](#)

Emerson 1F75H-21PR

Emerson 70 Series 7-Day Programmable Heat Pump Thermostat (Model 1F75H-21PR) Instruction Manual

Your guide to installation, operation, and maintenance of your Emerson thermostat.

[Introduction](#)

[Setup](#)

[Operation](#)

[Maintenance](#)

[Troubleshooting](#)

[Specifications](#)

[Warranty & Support](#)

1. INTRODUCTION

The Emerson 70 Series Programmable Digital Thermostat for Heat Pumps (Model 1F75H-21PR) offers a dependable solution for managing your home's heating and cooling. Designed for simplicity and ease of use, this thermostat features a clear backlit display and precise temperature control. It is compatible with heat pump systems, including dual fuel control, and does not require an outdoor sensor.

Key Features:

- **Easy Installation:** Battery-powered design with a standard footprint for straightforward setup.
- **Programmable:** Simple 7-day programming to customize heating and cooling schedules, helping to optimize energy use.
- **Energy Savings:** Utilize programmed schedules to potentially reduce HVAC energy consumption.
- **Compatibility:** Works with heat pump models, including dual fuel systems, without needing an outdoor sensor.
- **Accurate Control:** Maintains precise temperature control within +/- 1°F.
- **Backlit Display:** Clear and easy-to-read display for monitoring temperature and settings.



Figure 1: Front view of the Emerson 70 Series Thermostat, displaying current room temperature and set temperature.

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Video 1: Overview of Emerson Traditional Thermostats, highlighting ease of installation, reliability, and warranty information. This video provides a general introduction to Emerson's thermostat range.

2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your Emerson 70 Series thermostat. While designed for easy installation, it is recommended that individuals with experience in HVAC systems perform the wiring to ensure correct setup and avoid potential issues. The thermostat is battery-powered and uses a standard footprint, simplifying replacement of existing units.

Installation Steps:

1. **Power Off:** Before beginning installation, ensure the power to your heating and cooling system is turned off at the circuit breaker.
2. **Remove Old Thermostat:** Carefully remove your old thermostat from the wall. Note the wiring connections. It is advisable to

take a picture of the existing wiring for reference.

3. **Mounting Plate:** Install the new thermostat's mounting plate to the wall using the provided hardware.
4. **Wiring:** Connect the wires from your HVAC system to the corresponding terminals on the new thermostat. Refer to the wiring diagram in the included instruction booklet for specific connections. This model is compatible with heat pump systems (2H/1C).
5. **Install Batteries:** Insert the two AA batteries (included) into the thermostat.
6. **Attach Thermostat:** Secure the thermostat body onto the mounting plate.
7. **Power On:** Restore power to your heating and cooling system at the circuit breaker.
8. **Initial Setup:** Follow the on-screen prompts for initial setup, including setting the current time and date.

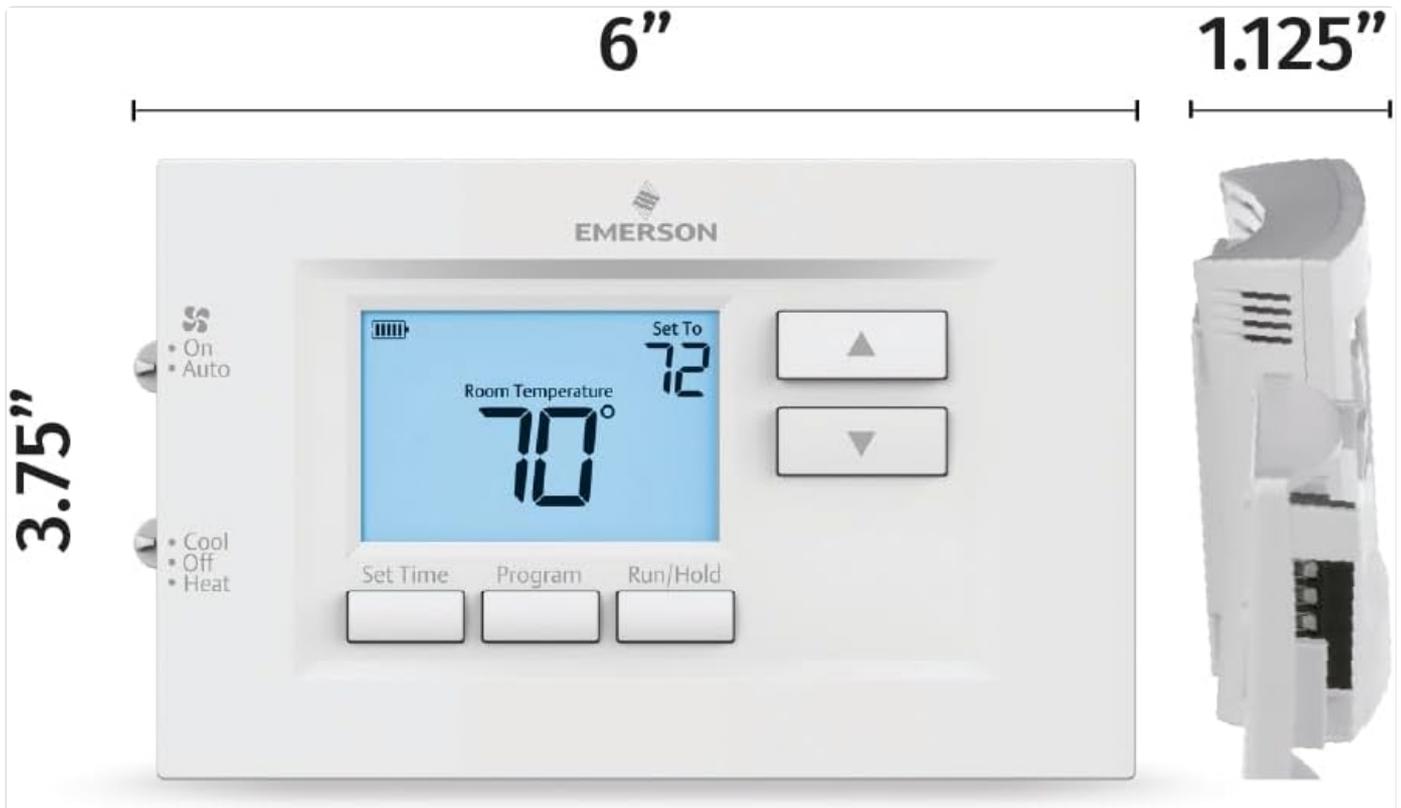


Figure 2: Rear view of the Emerson 70 Series Thermostat, illustrating the wiring terminals and battery placement area.

3. OPERATION

The Emerson 70 Series thermostat is designed for intuitive operation, allowing you to easily manage your home's climate. The backlit display provides clear information, and the programmable features enable energy-efficient scheduling.

Basic Controls:

- **Temperature Adjustment:** Use the **Up** and **Down** arrow buttons to increase or decrease the set temperature.
- **System Mode:** Select between **Cool**, **Off**, and **Heat** modes using the system switch on the side of the thermostat.
- **Fan Mode:** Choose between **On** (continuous fan operation) or **Auto** (fan runs only when heating or cooling) using the fan switch.
- **Set Time:** Press the **Set Time** button to adjust the current time and day.
- **Program:** Use the **Program** button to access and modify the 7-day programmable schedule. This allows you to set different temperatures for various times of the day and days of the week.
- **Run/Hold:** The **Run/Hold** button allows you to either run the programmed schedule or temporarily hold a desired temperature.

Adjusting Cycle Rate:

The cycle rate determines how frequently your heating or cooling system turns on. Adjusting this setting can impact comfort and energy efficiency. The default setting for both heat and cool cycle rates is "Medium".

1. Press and hold the **Menu** button for 8 seconds to enter the installer's menu.
2. Use the **Next** and **Back** buttons to navigate through the menu items.
3. Locate item 30 (CR) for the heat cycle rate.
4. Locate item 35 (CR) for the cool cycle rate.
5. Use the **Up** and **Down** arrow buttons to change the setting for each cycle rate to Slow, Fast, or Medium.

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Video 2: Demonstrates how to adjust the cycle rate on an Emerson thermostat. This is a useful guide for optimizing system performance.

4. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your Emerson thermostat and HVAC system. The thermostat includes features to assist with timely maintenance reminders.

Key Maintenance Aspects:

- **Battery Replacement:** The thermostat is powered by two AA batteries. A low battery indicator will appear on the display when replacement is needed. Replace batteries promptly to ensure continuous operation.
- **Filter Change Reminder:** The thermostat features a filter indicator to remind you when it's time to change your HVAC system's air filter. Regularly changing the filter improves air quality and system efficiency.
- **Cleaning:** Gently wipe the thermostat's exterior with a soft, damp cloth. Avoid using abrasive cleaners or solvents.

5. TROUBLESHOOTING

If you encounter issues with your Emerson 70 Series thermostat, refer to the following common troubleshooting tips:

Problem	Possible Cause	Solution
No display or blank screen	Dead batteries	Replace the two AA batteries.
System not responding (no heating/cooling)	Incorrect system mode selected; Power outage; Blown fuse/tripped breaker	Check if the thermostat is set to Heat or Cool. Verify power to the HVAC system. Check circuit breaker.
Temperature inaccuracy	Thermostat location; Calibration needed	Ensure thermostat is not exposed to direct sunlight or drafts. Consult the full manual for calibration instructions if available.
Fan runs continuously in Auto mode	Fan switch set to "On"	Set the fan switch to "Auto".

For more detailed troubleshooting, please refer to the complete user manual or contact Emerson customer support.

6. SPECIFICATIONS

Feature	Detail
Brand	Emerson

Feature	Detail
Model Name	70 Series, 7 Day Programmable, Heat Pump (2H/1C) Thermostat
Model Number	1F75H-21PR
Product Dimensions	1.13"D x 6"W x 3.75"H
Controller Type	Hand Control
Special Features	Filter Indicator, Low Battery Indicator, Low Voltage, Programmable, Temperature Display
Color	White
Compatible Systems	Air Conditioner, Boiler, Furnace, Heat Pump (2 Heat/1 Cool)
Temperature Control Type	Digital
Power Source	Battery Powered (2 AA batteries included)
Voltage	3 Volts (DC)
Display Type	LED with Backlight
Control Method	Button Control, Touch
Mounting Type	Wall Mount
Item Weight	9.1 ounces

7. WARRANTY & SUPPORT

Emerson stands behind the quality of its thermostats. The 70 Series thermostat comes with a best-in-class warranty of up to 5 years, providing peace of mind regarding your investment.

Customer Support:

For technical assistance, warranty claims, or additional information, please refer to the contact details provided in your product packaging or visit the official Emerson website. Online resources and FAQs may also be available to help resolve common queries.