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## Emerson 1F83H-21NP

# Emerson 1F83H-21NP Heat Pump (2H/1C) Non-Programmable Thermostat User Manual

Model: **1F83H-21NP** | Brand: **Emerson**

### PRODUCT OVERVIEW

The Emerson 1F83H-21NP is a non-programmable digital thermostat designed for heat pump systems (2H/1C) with a dual fuel option. It features a large, backlit display for easy readability and offers both hardwire and/or battery power options for flexible installation.

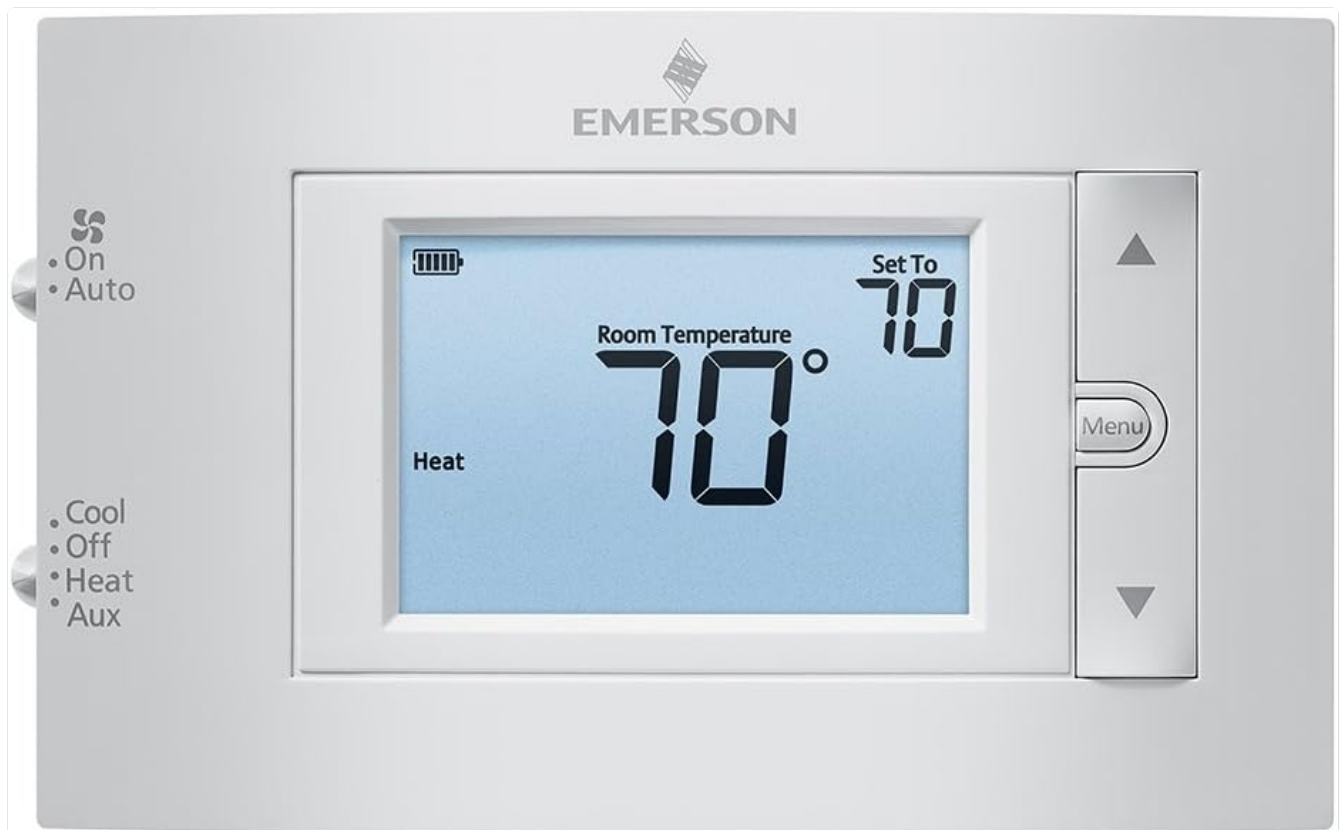


Figure 1: Front view of the Emerson 1F83H-21NP Thermostat, highlighting the clear digital display, fan control options (On/Auto), system mode options (Cool/Off/Heat/Aux), and temperature adjustment buttons with a Menu button.

### Key Features:

- **Big, clear display:** Easily read in low lighting conditions.
- **Easy installation:** Features a built-in level indicator, pluggable terminals, and a streamlined configuration menu.
- **Advanced features:** Includes keypad lock, temperature limits, and a backlight button.
- **Dual fuel standard:** No additional sensors needed for dual fuel systems.
- **Non-programmable:** Simple and straightforward temperature control without complex scheduling.

## SETUP AND INSTALLATION

Before beginning installation, ensure the power to your HVAC system is turned off at the circuit breaker to prevent electrical shock.

### Included Components:

- Emerson 1F83H-21NP Thermostat Unit
- User Manual (this document)
- 2 AA Batteries (included for initial setup)

### Wiring and Mounting:

1. Carefully remove your old thermostat, noting the wiring connections. It is recommended to take a picture of the existing wiring for reference.
2. Mount the new thermostat base plate to the wall using the provided hardware. The built-in level indicator assists in ensuring a straight installation.
3. Connect the wires to the corresponding terminals on the Emerson 1F83H-21NP thermostat. Common terminals include R, C, W2, E, Y, O/B, G, L. Refer to your HVAC system's wiring diagram if unsure.
4. Insert the 2 AA batteries into the battery compartment. The thermostat supports dual power: hardwire and/or battery.
5. Attach the thermostat faceplate to the mounted base plate.
6. Restore power to your HVAC system at the circuit breaker.

## OPERATING INSTRUCTIONS

The Emerson 1F83H-21NP thermostat is designed for straightforward operation. The large, clear display makes it easy to view the current room temperature and set temperature.

### Adjusting Temperature:

- Use the **Up (▲)** and **Down (▼)** arrow buttons located on the right side of the thermostat to adjust the desired set temperature.
- The display will show both the current room temperature and the 'Set To' temperature.

### System Mode Selection:

The system switch on the left side of the thermostat allows you to select the operating mode:

- **Cool:** Activates the cooling system.
- **Off:** Turns off both heating and cooling systems.
- **Heat:** Activates the primary heating system.
- **Aux/Emer:** Activates auxiliary or emergency heating, typically used when the heat pump cannot meet the heating demand.

### Fan Operation:

The fan switch, located above the system switch, controls the fan operation:

- **Auto:** The fan runs only when the heating or cooling system is actively operating.
- **On:** The fan runs continuously, regardless of whether the heating or cooling system is active.

### Additional Functions:

- **Menu Button:** Press the **Menu** button to access advanced settings and configuration options.
- **Backlight Button:** Press the backlight button (if available, typically integrated with another button or automatic) to illuminate the display for better visibility in low light.
- **Keypad Lockout:** This feature prevents unauthorized changes to settings. Refer to the full user manual for instructions on enabling/disabling keypad lockout.
- **Temperature Limits:** Set minimum and maximum temperature limits to prevent the thermostat from being set outside a desired range. Consult the full user manual for setup details.

## MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your thermostat.

### Battery Replacement:

The thermostat requires 2 AA alkaline batteries. A low battery indicator will appear on the display when replacement is needed. To replace batteries:

1. Gently pull the thermostat faceplate away from the wall plate.
2. Remove the old batteries and insert new 2 AA alkaline batteries, ensuring correct polarity.
3. Snap the faceplate back onto the wall plate.

### Cleaning:

Wipe the thermostat's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents, as they may damage the finish or internal components.

## TROUBLESHOOTING

If you encounter issues with your Emerson 1F83H-21NP thermostat, consider the following common solutions:

- **No Display/Power:** Check if the 2 AA batteries are correctly installed and have sufficient charge. If hardwired,

ensure the circuit breaker for your HVAC system is on.

- **System Not Responding:** Verify that the system switch is set to the desired mode (Heat, Cool, Aux/Emer). Check if the fan switch is set to Auto or On as appropriate. Ensure the set temperature is above (for heat) or below (for cool) the current room temperature.
- **Temperature Inaccuracy:** Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources that could affect its temperature readings.
- **Keypad Unresponsive:** Check if the keypad lockout feature is enabled. Refer to the full user manual for instructions on disabling it.

For more detailed troubleshooting steps or persistent issues, please contact Emerson customer support or consult a qualified HVAC technician.

## SPECIFICATIONS

Attribute	Detail
Brand	Emerson
Model Name	80 Series
Model Number	1F83H-21NP
Controller Type	Hand Control
Special Features	Lockable, Low Battery Indicator, Low Voltage, Temperature Display
Color	White
Specific Uses For Product	Heat Pump
Temperature Control Type	Heating, Cooling
Connectivity Technology	Wired
Included Components	2 AA Batteries, Thermostat, User Manual
Power Source	Battery Powered
Voltage	24 Volts
Material	Plastic
Shape	Rectangular
Display Type	LCD
Screen Size	4.5 Inches
Control Type	Button Control
Control Method	Touch
Mounting Type	Wall Mount

Style	Digital
Backlight	Yes
Item Weight	9.9 ounces
Product Dimensions	6 x 1.13 x 3.75 inches

## WARRANTY INFORMATION

Emerson products are designed for reliability. For specific warranty details regarding your 1F83H-21NP thermostat, please refer to the warranty card included with your product packaging or visit the official Emerson website. Keep your proof of purchase for warranty claims.

## CUSTOMER SUPPORT

For technical assistance, troubleshooting, or general inquiries about your Emerson 1F83H-21NP thermostat, please contact Emerson Climate Technologies customer support. You can find contact information on the official Emerson website or in your product documentation.

For additional resources and product information, visit the [Emerson Store on Amazon](#).