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Emerson 1F82-261

Emerson 1F82-261 Heat Pump Programmable Digital Thermostat User Manual

Model: 1F82-261

INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the Emerson 1F82-261 Heat Pump Programmable Digital Thermostat. This thermostat is designed for residential and light commercial heat pump applications, offering 5-2 day programming for efficient temperature control.



Image: Emerson 1F82-261 Heat Pump Programmable Digital Thermostat. The thermostat is white with an LCD screen

displaying time and temperature, and two up/down arrow buttons for adjustments. The Emerson logo is visible on the right side.

SETUP AND INSTALLATION

Proper installation is crucial for the thermostat's functionality. It is recommended that installation be performed by a qualified technician. Ensure power to the HVAC system is turned off at the circuit breaker before proceeding.

Wiring

The Emerson 1F82-261 thermostat is designed for hardwired installations and includes B/O terminals. It supports heat pump systems with 2 heat stages (1st stage compressor contactor, 2nd stage auxiliary heat) and 1 cool stage (compressor contactor).

- **Disconnect Power:** Turn off power to the heating and cooling system at the main fuse or circuit breaker.
- **Remove Old Thermostat:** Carefully remove the old thermostat cover and note the wire connections. It is advisable to label each wire with the terminal designation it was connected to.
- **Mount Thermostat Base:** Secure the new thermostat base to the wall using the provided screws.
- **Connect Wires:** Connect the labeled wires to the corresponding terminals on the new thermostat. Refer to the wiring diagram typically found in the product packaging for specific connections.
- **Install Batteries:** Insert the two AA alkaline batteries (included) into the battery compartment.
- **Attach Thermostat Body:** Carefully attach the thermostat body to its base.
- **Restore Power:** Turn the power back on at the circuit breaker.

Initial Configuration

After installation and power restoration, the thermostat will typically prompt for initial setup, including time and date settings.

- **Set Current Time and Day:** Use the up/down arrow buttons to adjust the time and day.
- **Select Temperature Display:** Choose between Celsius or Fahrenheit display as preferred.

OPERATING INSTRUCTIONS

The Emerson 1F82-261 thermostat provides intuitive controls for managing your home's climate.

Basic Operation

- **Mode Selection:** Use the "System" button (if present, or cycle through modes) to select between Heat, Cool, Auto, or Off.
- **Fan Control:** Use the "Fan" button to select between Auto (fan runs only when heating/cooling) or On (fan runs continuously).
- **Temperature Adjustment:** Use the **Up** and **Down** arrow buttons to manually adjust the desired temperature setpoint.

5-2 Day Programming

This thermostat features 5-2 day programming, allowing for separate weekday and weekend schedules. This enables energy management recovery by adjusting temperatures automatically.

1. **Enter Program Mode:** Press the "Program" button (or similar, refer to on-screen prompts).
2. **Set Weekday Schedule:** For Monday-Friday, set desired temperatures for different periods (e.g.,

Wake, Leave, Return, Sleep).

3. **Set Weekend Schedule:** For Saturday-Sunday, set desired temperatures for different periods.
4. **Save Settings:** Confirm and save your programming. The thermostat will then follow these schedules automatically.

The LCD with backlight enhances visibility, and the electronic accuracy ensures precise temperature control.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your thermostat.

Battery Replacement

The thermostat requires two AA alkaline batteries. Replace them annually or when the low battery indicator appears on the display. To replace:

1. Gently pull the thermostat body from its wall base.
2. Remove the old batteries and insert new AA alkaline batteries, observing polarity (+/-).
3. Reattach the thermostat body to the wall base.

Cleaning

Wipe the thermostat's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.

Filter Indicator

The thermostat features a filter indicator to remind you when to check or replace your HVAC system's air filter. Follow your HVAC system's recommendations for filter maintenance.

TROUBLESHOOTING

If you encounter issues with your thermostat, refer to the following common problems and solutions.

Problem	Possible Cause / Solution
Thermostat display is blank.	Check batteries and replace if necessary. Ensure power to the HVAC system is on at the circuit breaker.
Heating/Cooling system not responding.	Verify system mode (Heat/Cool/Off) is correctly selected. Check wiring connections. Ensure power to the HVAC system is on.
Inaccurate temperature reading.	Ensure the thermostat is not exposed to direct sunlight or drafts. Some models allow for temperature calibration; consult the full manual or manufacturer's website for specific instructions for model 1F82-261.
Backlight is dim.	This can be a characteristic of the LCD display. Ensure batteries are fresh.

For more complex issues, contact a qualified HVAC technician or Emerson customer support.

SPECIFICATIONS

- **Model:** 1F82-261
- **Brand:** Emerson
- **Application:** Heat Pump (2 Heat, 1 Cool)
- **Programming:** 5-2 Day Programmable
- **Power Source:** Hardwired, 2 AA Alkaline Batteries (included)
- **Voltage:** 120 Volts
- **Display Type:** LCD with Backlight
- **Temperature Display:** Selectable Celsius or Fahrenheit
- **Special Features:** Clock Display, Filter Indicator, Low Voltage, Energy Management Recovery
- **Dimensions:** Approximately 1.75 x 6.25 x 4.25 inches
- **Weight:** Approximately 0.01 Ounces
- **Connectivity:** Wired (BACnet MS/TP protocol mentioned in specs, but for this residential model, it refers to standard thermostat wiring)
- **Mounting Type:** Wall Mount

WARRANTY INFORMATION

Warranty details for the Emerson 1F82-261 thermostat are typically provided with the product packaging or can be found on the official Emerson website. Please retain your proof of purchase for warranty claims.

SUPPORT

For technical assistance, additional product information, or to locate a service professional, please visit the official Emerson website or contact their customer support department. Contact information is usually available in the product documentation or on the manufacturer's website.