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PROSELECT PSTS21P52 Programmable Thermostat User Manual

Model: PSTS21P52

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your PROSELECT PSTS21P52 5-2 Day Programmable Thermostat. This device is designed for 2 Heat/1 Cool conventional and heat pump systems operating on 24VAC.

Please read this manual thoroughly before installation and operation to ensure proper function and to avoid damage to the unit or your HVAC system.

PRODUCT OVERVIEW



Figure 1: Front view of the PROSELECT PSTS21P52 Programmable Thermostat, showing the digital display, system mode switch, fan mode switch, and control buttons.

The PROSELECT PSTS21P52 thermostat features a clear digital display with a backlight, allowing for easy viewing of

temperature, time, and system status. It includes intuitive button controls for programming and adjustments, along with physical switches for system mode (Cool, Off, Heat, Emer) and fan operation (Auto, On).

SETUP AND INSTALLATION

Safety Precautions

- Turn off power to the heating and cooling system at the main fuse or circuit breaker panel before installation.
- Ensure wiring is performed by a qualified technician if you are unsure.
- This thermostat operates on 24 Volts AC. Do not connect to line voltage (120V/240V).

Mounting Location

Install the thermostat on an inside wall, approximately 5 feet (1.5m) above the floor. Avoid locations near heat sources (lamps, sunlight, fireplaces), drafts (windows, doors), or unconditioned spaces (unheated hallways, outside walls).

Wiring Instructions

This thermostat is compatible with 2 Heat/1 Cool conventional and heat pump systems. Refer to your HVAC system's wiring diagram for specific terminal connections. Common terminals include:

- **R:** 24VAC Hot
- **C:** 24VAC Common (optional, but recommended for consistent power)
- **W/E:** Heat (Conventional) / Emergency Heat (Heat Pump)
- **Y:** Cool (Conventional) / Compressor (Heat Pump)
- **G:** Fan
- **O/B:** Reversing Valve (Heat Pump)

After wiring, securely mount the thermostat to the wall plate.

Battery Installation

The thermostat requires batteries for operation (not included). Open the battery compartment and insert the specified batteries, observing polarity. Replace batteries when the low battery indicator appears on the display.

OPERATING INSTRUCTIONS

Display and Buttons

The digital display shows the current time, day, set temperature, and actual room temperature. The buttons below the display are used for programming and adjustments:

- **▲ / ▼ (Up/Down Arrows):** Adjust temperature settings, time, and program values.
- **Light Bulb Icon:** Activates the display backlight.
- **PROG:** Enters programming mode for setting schedules.
- **HOLD:** Maintains the current temperature setting indefinitely, overriding the program.
- **RETURN:** Exits programming mode or returns to the previous screen.
- **DAY/TIME:** Sets the current day and time.

System Mode Switch

Located on the left side of the thermostat, this switch controls the overall operation mode:

- **COOL:** Activates the cooling system.
- **OFF:** Turns off both heating and cooling systems.
- **HEAT:** Activates the heating system.
- **EMER (Emergency Heat):** For heat pump systems, activates auxiliary or emergency heat. Use only when the heat pump is not functioning.

Fan Mode Switch

Located on the right side of the thermostat, this 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 heating or cooling calls.

Programming the Schedule (5-2 Day)

The thermostat allows for a 5-2 day programmable schedule, meaning one schedule for weekdays (Monday-Friday) and another for weekends (Saturday-Sunday). Each day can have up to four time periods (e.g., Wake, Day, Evening, Sleep) with different temperature settings.

1. Press **PROG** to enter programming mode.
2. Use **DAY/TIME** to select the day(s) you wish to program (e.g., M-F).
3. Use **PROG** to cycle through the four time periods (Wake, Day, Evening, Sleep).
4. Use the ▲ / ▼ arrows to set the desired temperature for each period.
5. Use the ▲ / ▼ arrows to set the start time for each period.
6. Repeat for all desired periods and days.
7. Press **RETURN** to save and exit programming mode.

MAINTENANCE

Cleaning

Wipe the thermostat's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure no liquid enters the internal components.

Battery Replacement

Replace batteries immediately when the low battery indicator appears on the display. Typically, batteries should be replaced annually to prevent leakage and ensure reliable operation. Use high-quality alkaline batteries.

System Filter Replacement

While not directly part of the thermostat, regularly replacing your HVAC system's air filter is crucial for optimal performance and air quality. Refer to your HVAC system's manual for filter replacement intervals.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No display or blank screen	Dead or improperly installed batteries; No 24VAC power.	Replace batteries, ensuring correct polarity. Check circuit breaker for HVAC system. Verify 24VAC at thermostat terminals.
System not responding to thermostat settings	Incorrect system mode; Loose wiring; HVAC system issue.	Ensure system switch is set to COOL or HEAT. Check wiring connections at thermostat and HVAC unit. Consult HVAC technician if problem persists.
Temperature reading seems inaccurate	Thermostat located near heat source/draft; Sensor malfunction.	Relocate thermostat if possible. If issue persists, contact support.
Programmed schedule not running	Thermostat is in HOLD mode; Incorrect time/day setting.	Press HOLD to cancel hold. Verify current time and day settings. Re-program schedule if necessary.

SPECIFICATIONS

- **Model:** PSTS21P52
- **Brand:** PROSELECT
- **Compatibility:** 2 Heat/1 Cool Conventional and Heat Pump Systems
- **Voltage:** 24 VAC
- **Power Source:** Battery Powered (Batteries not included)
- **Special Features:** 5-2 Day Programmable, Backlit Display
- **Control Type:** Button Control
- **Color:** Blue (display backlight)
- **Shape:** Rectangular
- **UPC:** 781889210642

WARRANTY AND SUPPORT

Warranty Information

For specific warranty details, please refer to the warranty card included with your product packaging or contact PROSELECT customer service. Keep your purchase receipt as proof of purchase.

Customer Support

If you require further assistance or have questions not covered in this manual, please contact PROSELECT customer support. Contact information can typically be found on the product packaging or the official PROSELECT website.

Note: Do not attempt to repair the thermostat yourself. Unauthorized repairs may void the warranty.



