

OWNER'S  
MANUAL

°STELPRO

NON-PROGRAMMABLE ELECTRONIC THERMOSTAT  
FOR BASEBOARDS, CONVECTORS AND FAN HEATERS

ST252NPFFST402NPFF



1-844-STELPRO  
WWW.STELPRO.COM



## IMPORTANT INSTRUCTIONS

THE THERMOSTAT MUST BE INSTALLED BY A CERTIFIED ELECTRICIAN.

Connect the thermostat to a 120 to 240 VAC power source **ONLY** and comply with load limits.

**WARNING – HIGH VOLTAGE.** Turn off the power supply before installation and maintenance. Leave at least 12 in. (30 cm) clearance around the thermostat to ensure that it is properly vented.

## SAVE THESE INSTRUCTIONS

## TECHNICAL SPECIFICATIONS

| VOLTAGE AND LOAD |                |               |               |
|------------------|----------------|---------------|---------------|
| PRODUCT CODE     | SUPPLY VOLTAGE | LOAD AT 120 V | LOAD AT 240 V |
|                  | VOLTS          | WATTS         | WATTS         |
| ST252NPFF        | 120-240        | 150-1250      | 300-2500      |
| ST402NPFF        |                | 150-2000      | 300-4000      |

|                                                                                                      |                                                                              |
|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Load control type                                                                                    | Resistive                                                                    |
| Frequency                                                                                            | 60 Hz                                                                        |
| Storage temperature                                                                                  | -40°C to 50°C (-40°F to 122°F)                                               |
| Operating temperature                                                                                | -20°C to 50°C (-4°F to 122°F).<br>LC display less effective below 0°C (32°F) |
| Humidity                                                                                             | 5% to 98% without condensation                                               |
| Action                                                                                               | Type 1.Y                                                                     |
| Pollution degree                                                                                     | 2                                                                            |
| Software                                                                                             | Class A                                                                      |
| Rated impulse voltage                                                                                | Category II overvoltage (1500 V)                                             |
| Independently mounted control for surface mounting                                                   |                                                                              |
| Thermistor used as a sensor, carries no load current                                                 |                                                                              |
| Overload protection device external to the control: circuit breaker (refer to local electrical code) |                                                                              |

## BEFORE YOU GET STARTED

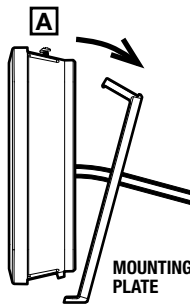
- The box contains one (1) thermostat with mounting plate, two (2) mounting screws, three (3) twist-on wire connectors and one (1) owner's manual.
- To install this thermostat, you will need a #2 Phillips screwdriver.
- Install your thermostat about 5 ft (1.5 m) from the floor on an inside wall facing the heating system.

## INSTALLATION

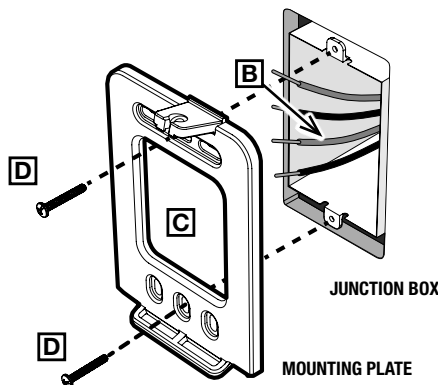
### 1 ATTACH THE MOUNTING PLATE

**WARNING:** Turn off the power supply.

- Loosen the screw [A] at the top of the thermostat without removing it.
- Separate the mounting plate from the thermostat. Pull the top of the plate and rotate.



- Take the power wires [B] out of the junction box and run them through the large opening in the center of the mounting plate [C].
- Using the two (2) mounting screws provided [D], attach the thermostat mounting plate to the junction box. The plate can be centered on the junction box or shifted to the left or right.



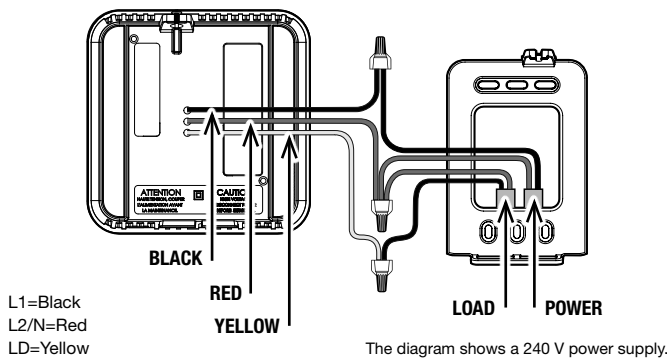
### 2 CONNECT THE POWER SUPPLY WIRES

**WARNING:** Incorrectly connected electrical wires could result in a fire hazard.

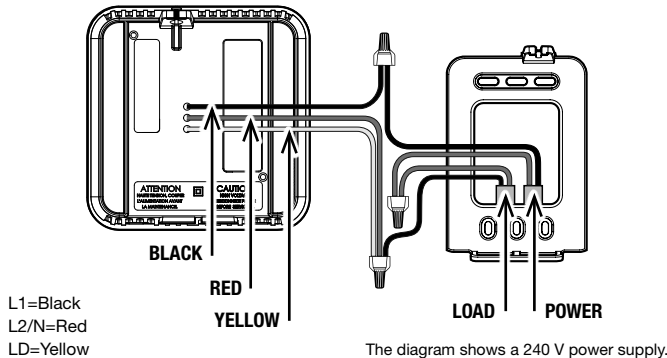
- Complete the thermostat's electrical connection according to the diagram below. Tighten the wires securely in the supplied wire connectors.
- Push the wires and connectors into the electrical box.

NOTE: If the electrical wires are aluminum, use CO/ALR connectors instead (not supplied).

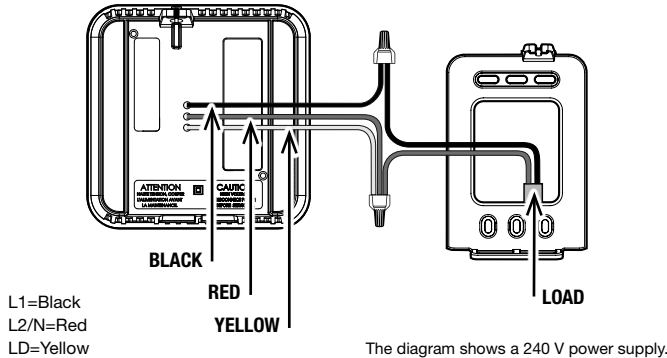
FOR BASEBOARDS, CONVECTORS AND FAN HEATERS



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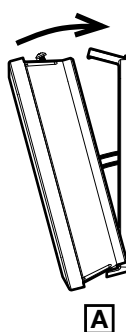


FOR BASEBOARDS AND CONVECTORS ONLY



### 3 ATTACH THE THERMOSTAT

- Using the alignment guide, hook the bottom [A] of the thermostat into the bottom of the plate. Be sure not to jam the wires between the thermostat and mounting plate.
- Rotate the thermostat upwards and attach it on the top hook of the mounting plate.



- Tighten the screw at the top of the thermostat [B] to hold it in place securely.
- Restore the power at the circuit breaker.

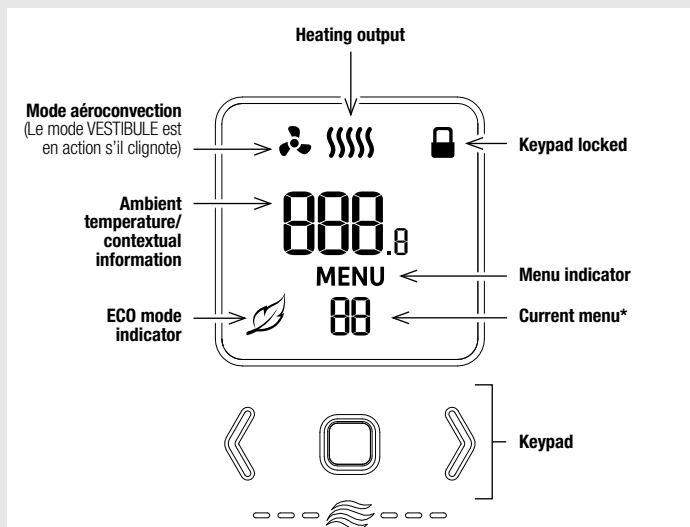
NOTE: If you need to remove the thermostat, follow step 1 in section 1, then use a straight screwdriver to unhook it from the top of the mounting plate.



## INTERFACE

This is a NON-PROGRAMMABLE thermostat. The temperature setpoint remains constant unless you change it.

Touch the keypad once to activate the backlight, then you can make changes.



\*Displays only when using the advanced menus.

## INITIAL SETTINGS

To begin with, follow the on-screen instructions to adjust your thermostat's settings. Press or to change your selection and to confirm.

- Temperature format:** °C / °F (Celsius / Fahrenheit)
- ECO mode setpoint temperature:** (5 °C to 30 °C / 41 °F to 86 °F). By default, the ECO mode setpoint is 17 °C / 63 °F.

Your heating needs may vary according to the season and even the time of day. To meet your needs, this thermostat is equipped with two distinct modes: ECO and COMFORT. You can switch from one mode to another by simply pressing . ECO mode saves you money by providing a more energy-efficient setpoint temperature when you're sleeping or away from home.

- Heating mode:** (Baseboard / Fan heater)
- Lobby mode:** STD / LBY (Standard room / Lobby).

In LOBBY mode, the thermostat automatically provides 100% heating for five minutes as soon as a sudden drop in temperature is detected. This mode can be useful for heaters located near an entrance. When this mode is activated, the icon flashes. LOBBY mode is available only if the heating mode selected is "Fan heater."

## FEATURES

### KEY FEATURES

- Press or once to lower or raise the setpoint temperature by 0.5 °C / 1 °F. The setpoint temperature will remain at this value until it is changed.

NOTE: If you change the setpoint temperature while in ECO mode, the thermostat will switch to COMFORT mode.

- Press once to switch from ECO mode to COMFORT mode and vice versa.
- Press and simultaneously to activate BOOST mode . Then, press or to select BOOST mode duration (10, 20, 30, 40, 40, 50 or 60 minutes). The thermostat will then heat at 100% for the time specified. When BOOST mode is on, the time remaining is displayed on the screen.
- Press any button to discontinue BOOST mode.

### ADVANCED MENU ACCESS AND USE

- Press and hold for 3 seconds to access the thermostat's advanced menus.
- Press or to change your selection.
- Press to confirm your selection and proceed to the next menu.
- Press and hold for 3 seconds to exit the advanced menus.

### ADVANCED MENUS LIST

- 10** – Temperature format: °C / °F (Celsius / Fahrenheit)
- 20** – ECO mode setpoint temperature (5 °C to 30 °C / 41 °F to 86 °F). By default, the ECO mode setpoint is 17 °C / 63 °F.
- 30** – Load type selection (Convector / Fan heater). FAN HEATER mode is the default mode.
- 31** – Lobby mode: STD / LBY (Standard room / Lobby). LOBBY mode is available only if the heating mode selected is "Fan heater."
- 40** – Keypad lock: ON / OFF (Lock keypad / Unlock keypad)
- dEF** – Reset thermostat to default values: N / Y (No / Yes)

### USING THE TECHNICAL MENUS:

- Press for 10 seconds to access the thermostat's technical menus (the advanced menu will appear after 3 seconds but continue to hold for another 7 seconds).
- Use or to change your selection.
- Press to confirm your selection and continue to the next menu.
- Press for 3 seconds to exit the thermostat's technical menus.

### TECHNICAL MENU LIST

- t1:** Maximum room temperature setpoint limit (5°C to 30°C / 41°F to 86°F). The default setting is 30°C.
- t2:** Minimum room temperature setpoint limit (5°C to 30°C / 41°F to 86°F). The default setting is 5°C.

NOTE: The maximum setpoint limit must be higher than the minimum setpoint limit, and the minimum setpoint limit must be lower than the maximum setpoint limit.

- t3:** Year of production
- t4:** Month of production
- t5:** Identification number
- t6:** Software version
- t7:** Thermostat control code

## STELPRO LIMITED WARRANTY

Limited three-year warranty. See details on [www.stelpro.com](http://www.stelpro.com).

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