

PTCS Heat Pump Thermostat Support Sheet

Manufacturer: Nest I, Nest II, Nest III

Thermostat Models: T100577, T200577, T3007ES

Is a Password Required? **NO**



1. How to enter installer set-up

- a. Press face of thermostat
- b. Rotate until Gear icon is on the top (Settings) and press the face of the thermostat
- c. Screen will automatically default to the home screen after 1 minute of inactivity

2. Determine system characteristics through T-Stat

- a. Press face of thermostat
- b. Rotate until Gear icon is at the top (Settings) and press the face of the thermostat
- c. Rotate until "Equipment" is displayed and press thermostat face
- d. Equipment detected will be displayed. With "Continue" highlighted in blue, press thermostat face again
- e. The system information will be displayed
- f. Press the thermostat face again and equipment settings will be displayed
- g. To exit make sure "Done" is highlighted in blue and press the face again

3. Check Compressor Lockout settings

- a. From Equipment settings accessed in Step 2, rotate until "Heat Pump" is highlighted and press the thermostat face
- b. "O" or "B" will be highlighted; press face of thermostat to continue. **Caution: any changes made will be permanent.**
- c. The screen will show "Use the heat pump compressor when the temperature is above: XX". "Always" or up to "5" degrees should be highlighted to meet the specification.
- d. To continue to check strip heat settings, press the thermostat face again

4. Check Strip Heat settings

- a. Follow steps 3-a through 3-d to view strip heat temperature settings
- b. The screen will show "Use the heat pump aux. heat when the temperature is below: XX". 35 degrees or below must be selected to meet the specification
- c. With "Done" highlighted in blue, press the thermostat face to return to Equipment settings
OR
- d. Press face of thermostat
- e. Rotate until Gear icon is at the top (Settings) and press the face of the thermostat
- f. Rotate until "Nest Sense" is displayed and press thermostat face
- g. Rotate until "Heat Pump Balance" is displayed and press thermostat face
- h. "Max Savings" must be selected to meet the specification. "Done" will be highlighted to confirm, press the face
- i. To exit rotate the dial and make sure "Done" is highlighted in blue and press the face again

PTCS Heat Pump Thermostat Support Sheet

Manufacturer: Nest I, Nest II, Nest III

Thermostat Models: T100577, T200577, T3007ES

5. Access Test Mode for testing system at full capacity

- a. Follow steps 2-a through 2-e to reach system information settings
- b. When system information is displayed, rotate dial to select "Test", press thermostat face
- c. To select the test you wish to run:
 - A. Heating Mode: press face of thermostat as "Heat pump heating" should already be selected
 - B. Cooling mode: rotate dial to select "heat pump cooling" and press face of thermostat
- d. Wait at least 10 minutes before taking static pressure readings and inserting flow plate for Trueflow plate test.
- e. Wait at least 15 to 20 minutes before doing temperature split readings for refrigerant test. The longer the system is allowed to run, the more likely it will reach a steady state

6. Exit Test Mode

- a. While in test mode, with "Done" highlighted, press the face of the thermostat
- b. System information will be displayed, "Continue" will be highlighted, press thermostat face again
- c. Equipment settings will be displayed, "Done" will be highlighted, press thermostat face again to fully exit

7. Exit Set-Up Mode

- a. From Settings screen, rotate to "Done" and press the thermostat face
- b. If screen is left untouched for 1 minute, it will return to the home screen by default

Resources: <https://nest.com/>

Sources: <https://nest.com/support/thermostat/>