network thermostat

NetX™ J5T-IP Installation Manual



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BEFORE YOU START

Please read the entire installation manual. The thermostat will need to be correctly wired and configured for proper operation. Basic HVAC configuration can be performed from the thermostat touchscreen and advanced settings are accessed via your network and the Internet.

INTRODUCTION

The J5T-IP is an Ethernet connected touchscreen thermostat, designed for new or replacement commercial or residential applications. It supports up to 2 Heat / 2 Cool conventional systems, and 3 Heat / 2 Cool heat pumps and features on-board sensor connectivity including two 10K thermistor inputs and one universal digital input. The built-in web pages provide straightforward setup of daily schedules (4 events per day), and up to 40 Special and 40 Calendar Events. The unique scheduling structure also supports the powerful features of adjustable temporary override times, temperature ranges, occupied and unoccupied events, touchscreen lockout, and more.

All J-Series Thermostats support NetX-Cloud™.

CORE FEATURES

- 4 independent schedules per day
- 40 Calendar Event Schedules
- 40 Special Event Schedules
- Integrated Humidity Sensor
- Integrated Weather with Current Conditions & 7-Day Forecasts
- (2) 10K Thermistor Inputs
- 1 Digital Input
- Email and text-message alerts for up to four recipients
- Alerts include High / Low Indoor and Outdoor Temperature, Inefficient Equipment Runtime, Filter-Change Notifications, and more

WHAT IS IN THE BOX?

(1) J-Series Thermostat

(2) 3/16 Drywall anchors

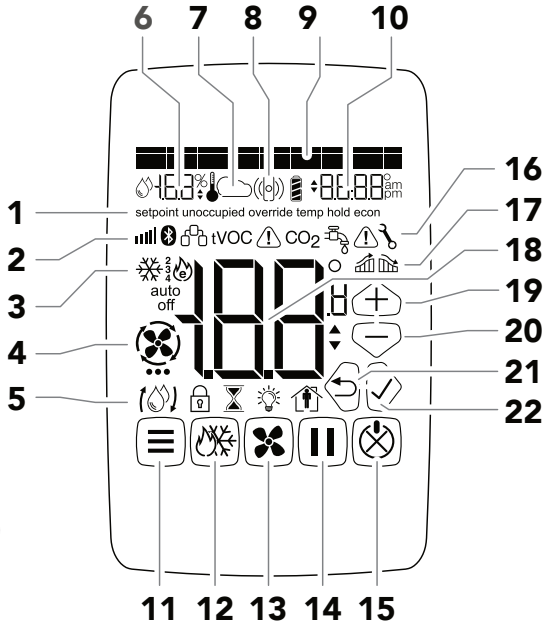
(2) Mounting Screws

(1) Installation Manual

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THERMOSTAT CALLOUT

1. Special Status Notification
2. Secondary Notification Icons
3. Current Equipment Mode Indicators
4. Fan Status
5. Secondary Status Icons
6. Remote Sensor Value (humidity and temperature)
7. Remote Sensor Icons (temperature, indoor, outdoor icons)
8. Occupancy Sensor Icon
9. Dot Matrix Display
10. Clock Display
11. Menu Button
12. Mode Button
13. Fan Button
14. Hold Button
15. Resume/Cancel/Power Button
16. Secondary Notification Icons
17. Adaptive Recovery Icons
18. Current Temperature Display
19. Up Button (Up Arrow)
20. Down Button (Down Arrow)
21. Back Button (Left Arrow)
22. Accept Button (Right Arrow)



INSTALLATION

Thermostat Location

To ensure proper operation, the thermostat should be mounted on an inside wall in a frequently occupied area of the space. In addition, its position must be at least 18" (46 cm) from any outside wall, and approximately 5' (1.5 m) above the floor in a location with freely circulating air of an average temperature.

Be sure to avoid the following locations:

- Behind doors or in corners where freely circulating air is unavailable
- Where direct sunlight or radiant heat from appliances might affect control operation
- On an outside wall
- Adjacent to, or in line with, conditioned air discharge grilles, stairwells, or outside doors
- Where its operation may be affected by steam or water pipes or warm air stacks in an adjacent partition, or by any unheated/uncooled area behind the thermostat
- Where operation may be affected by lighting dimmers
- Where operation will be affected by the supply air of an adjacent unit
- Near electrical source interference such as arcing relay contacts

MOUNT THERMOSTAT BACKPLATE

BEFORE YOU BEGIN: Turn off the power to the HVAC equipment.

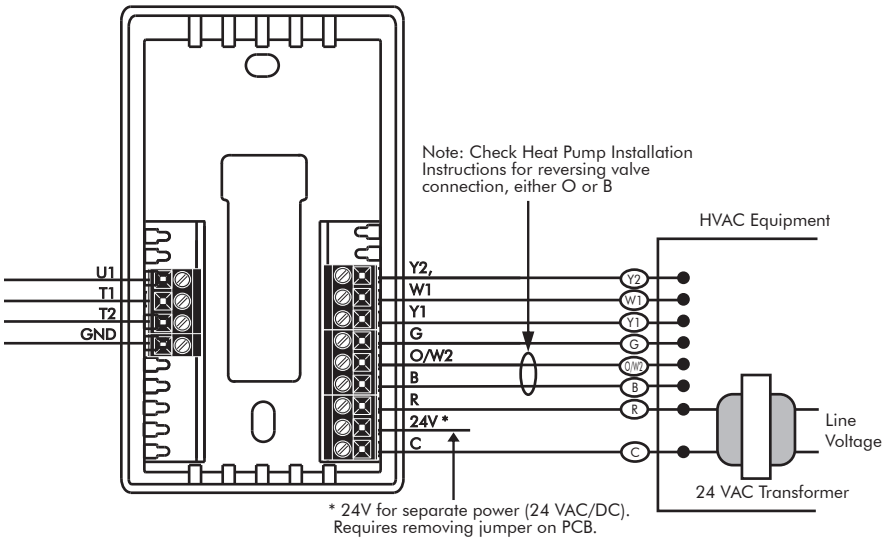
TIP: If you are replacing an existing thermostat, take a picture of the thermostat wiring for reference.

1. From the factory, the thermostat faceplate is not firmly connected to the backplate. While holding the thermostat, firmly near the bottom, gently pull apart the backplate from the faceplate.
2. Place the rectangular opening in the backplate over the equipment control wires protruding from the wall. Use the backplate as a template and mark the location of the two mounting holes.
3. Use the supplied anchors and screws for mounting on drywall or plaster; drill two 3/16" (5mm) diameter holes at the marked locations; tap the nylon anchors flush to the wall surface and fasten the backplate using the supplied screws.

   ⚠ **WARNING**: Do not over-tighten the screws!
4. Connect the wires from your system to the thermostat terminals as shown in the Wiring Diagrams section of this manual. Carefully dress the wires so that any excess is pushed back into the wall cavity or junction box. Ensure that the wires are flush with the plastic backplate. The access hole should be sealed or stuffed to prevent drafts from affecting the thermostat.

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BASIC WIRING DIAGRAM



TERMINAL CONNECTION CALLOUTS

U1 Universal Input 1 - Accepts Occupancy input or a 24V Digital Input.

T1 Thermistor 1 - Supports Type II or Type III Thermistors. Use for remote room temperature or auxiliary temperature sensing.

T2 Thermistor 2 - Supports Type II or Type III Thermistors. Use for remote room temperature or auxiliary temperature sensing.

GND: Return for U1, T1, T2

Y2: Energizes the compressor for second-stage cooling, or for heat pumps, either second-stage heating or cooling

W1: Energizes the heater for first-stage heating, or for heat pumps, Aux/Emer (Auxiliary/Emergency) Heat

Y1: Energizes the compressor for first-stage cooling, or for heat pumps, either first-stage heating or cooling

G: Energizes the fan circuit with a call for heating or cooling

O/W2: Energizes the heater for second-stage heating, or for heat pumps, energizes the reversing valve in cooling mode

B: Energizes the reversing valve in heating mode

R: Independent Switching Voltage from HVAC equipment

24V: 24 VAC

C: 24 VAC Common

INDEPENDENT POWER SOURCE (OPTIONAL)

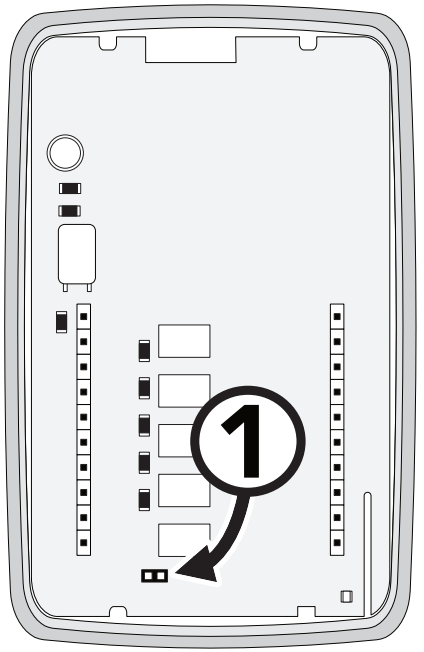
If power from the HVAC equipment does not meet the thermostat's requirements, the J-Series thermostat can be powered independently of the HVAC unit.

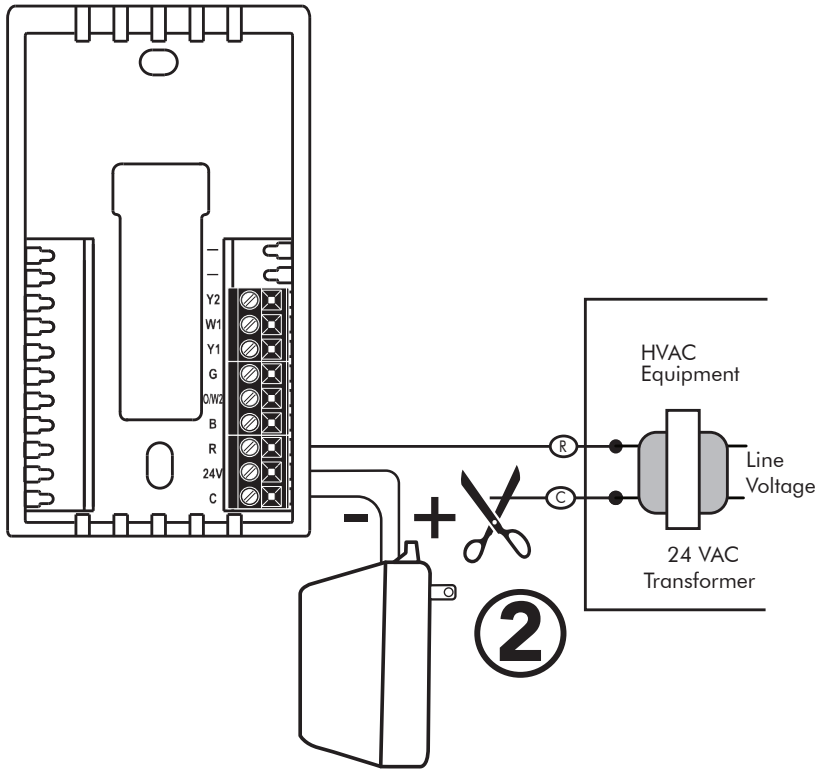
A separate NT-PWR24 (24 VAC) Transformer has the capability to power six J-Series thermostats. Follow the steps below to install a separate power source.

Remove the jumper on the faceplate. Place the separate transformer 24V wire in the 24V terminal.

Place the separate transformer 24 VAC (Common) wire in the C terminal.

Do not connect the HVAC equipment common to the thermostat.





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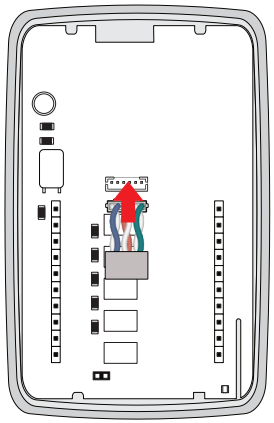
WIRING DIAGRAM REFERENCE CHART

The chart below lists the connections needed for the most common applications. Refer to the Basic Wiring Diagram for where to connect appropriate wires.

Terminals	Y2	W1	Y1	G	R	24V(c)	O/W2	B
Conventional- Heat only Gas		X		X	X	X		
Conventional- Heat only Electric		X		X	X	X		
Conventional- Cool Only			X	X	X	X		
Conventional- 1H/1C Gas		X	X	X	X	X		
Conventional- 2H/2C Gas	X	X	X	X	X	X	X	
Conventional- 1H/1C Electric		X	X	X	X	X		
Conventional- 2H/2C Electric	X	X	X	X	X	X	X	
Heat Pump- No Auxiliary Heat, Cool Reversing Valve			X	X	X	X	X	
Heat Pump- No Auxiliary Heat, Heat Reversing Valve			X	X	X	X		X
Heat Pump- 1 Stage Standard, Cool Reversing Valve		X	X	X	X	X	X	
Heat Pump- 1 Stage Standard, Heat Reversing Valve		X	X	X	X	X		X
Heat Pump- 1 Stage Dual Fuel, Cool Reversing Valve		X	X	X	X	X	X	
Heat Pump- 1 Stage Dual Fuel, Heat Reversing Valve		X	X	X	X	X		X
Heat Pump- 2 Stage Standard, Cool Reversing Valve	X	X	X	X	X	X	X	
Heat Pump- 2 Stage Standard, Heat Reversing Valve	X	X	X	X	X	X		X
Heat Pump- 2 Stage Dual Fuel, Cool Reversing Valve	X	X	X	X	X	X	X	
Heat Pump- 2 Stage Dual Fuel, Heat Reversing Valve	X	X	X	X	X	X		X

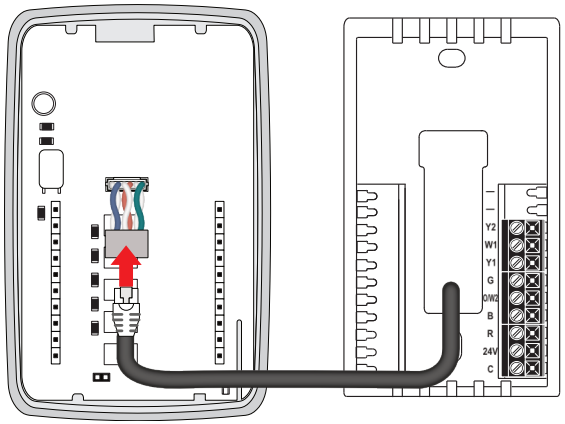
CONNECT NETWORK CABLE

Align the included RJ45 network dongle to the connector shown on the diagram. This is a "keyed" connector and can only be installed in one orientation.



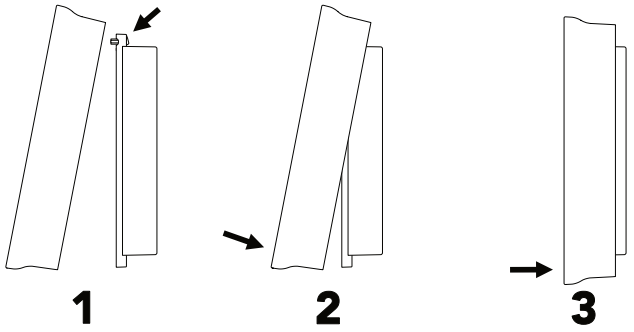
Connect Network Cable to Dongle

Route the network cable through the hole in the backplate and connect it to the dongle.



REATTACH FACEPLATE

1. Reattach the faceplate to the backplate by placing the top of the faceplate over the top lip of the backplate.
2. Gently swing the thermostat down and press on the bottom center edge until it snaps in place. This is a tight connection ,and it may require a little wiggle to align the pins on the faceplate with the screw terminals on the backplate before it snaps into place.
3. Reconnect power to the HVAC equipment. You are now ready to configure your thermostat for operation.



⚠ **WARNING:** Your thermostat is NOT ready to use. You must complete the Thermostat Setup section before using the thermostat. Failure to do this can result in damage to your equipment.

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THERMOSTAT SETUP

The Dot Matrix Display will provide feedback on the User Menu or Installer Menu configuration and selected options. The **Up** and **Down** Buttons are used to select parameters while the **LEFT ARROW** (Back Button) and **RIGHT ARROW** (Accept Button) are used to accept settings and navigate through the menu. You can use the **CANCEL BUTTON** to leave the User or Installer Menu at any time.

TOUCHSCREEN USER MENU

Tap the **Menu Button** on the lower left of the thermostat touchscreen to access the User Menu. The Dot Matrix Area will guide you through the User settings. To save a setting and navigate to the next menu item, press the **Checkmark Button** (Right Arrow). To return to the previous menu item, press the Back Button L (Left Arrow). Use the **Up** and **Down** Buttons to select from the available options for each setting.

Brightness - Screen Brightness

Select the brightness of the touchscreen display.

Options: Auto (default), High, Medium, Low

Display Complexity

There are three different resting display options.

Options:

- **Full:** (default) Shows the entire screen all the time
- **Minimal:** If no activity is detected by the sensor for 5 seconds, only the room temperature is shown.
- **Dark:** If no activity is noticed by the sensor for 5 seconds, the whole screen goes blank.

Adjust Clock - 12Hr or 24Hr Clock

Select between AM/PM or 24H time display. 12 Hr is the default.

°F or °C Temperature Display

Select between °F (Fahrenheit) and °C (Celsius) temperature display. °F (Fahrenheit) is the default.

TOUCHSCREEN INSTALLER MENU

Press and hold the **Menu Button** on the lower left of the thermostat touchscreen for 5 seconds to access. Installer Menu will briefly display in the Dot Matrix Area, followed by Conventional/HP. To save a setting and advance to the next menu item, press the **Checkmark Button** (Right Arrow). To return to the previous menu item, press the **Back Button** (Left Arrow).

Conventional / Heat Pump

Select between Conventional and Heat Pump operation. Conventional is the default.

NOTE: If Conventional is selected, proceed to Stages Cool. If Heat Pump is selected, proceed to # of Compressors.

Stages Cool

Select between 1 and 2 Stages of Cool. The value is displayed in the main display. The default is 1.

Stages Heat

Select between 1 and 2 Stages of Heat. The value is displayed in the Main Display. The default is 1.

Gas or Electric Heat

Select between Gas and Electric operation. Gas heat is the default.

NOTE: If you selected Conventional Heat, proceed to Minimum On Time.

of Compressors

Select between 1 and 2 Stage Compressor. The value is displayed in the main display. The default is 1.

Enable Aux/EHeat

Select between Aux/EHeat Mode On (default) and Aux/EHeat Mode Off.

NOTE: If the Aux/EHeat **ON** is selected, proceed to Heat Pump Option. Otherwise, proceed to the Minimum On-Time option.

Heat Pump Option

Select between HP Regular (default) and HP Dual Fuel.

If needed, the thermostat will perform the function of a fossil fuel kit. When HP Dual Fuel is selected, the thermostat will turn off the compressor with a call for AUX heat. The HP Regular option will allow the compressor and AUX heat to run simultaneously.

Minimum On Time

Select from 0 up to 5 Minutes. The value is displayed in the main display. 0 Minutes is the default. The system will operate for a minimum of 0 minutes to 5 minutes, depending on your settings.

Minimum Off Time

Select from 2 up to 5 Minutes. The value is displayed in the main display. 2 Minutes is the default. The system will allow equipment recovery for 2 up to 5 minutes before turning it on again. This is also known as short-cycle protection.

Screen Saver

To maximize screen life, the J-Series thermostat includes a screen saver function. Never is the default. Pressing the **DOWN ARROW** will select Unocc, which will turn off the screen when the thermostat determines the room is unoccupied. Additionally, pressing the **UP ARROW** will access a timer for the screen saver from 10 up to 60 minutes in 10-minute increments.

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Allow Clock/Sched

When enabled in the Installer Menu, (Clock/Schedule Set:Y), you can set the clock manually on the thermostat.

Manually Setting The Clock (Set Clock)

If enabled under the Allow Clock Sched section in the Installer Menu, you can set the clock by tapping on the time on the upper right of the display. Then follow the on-screen menu prompts.

Adaptive Recovery

Select On (default) or Off. When this is enabled, the thermostat will anticipate when to turn on the heating or cooling system before the start of an occupied schedule to achieve the desired setpoint temperature by the beginning of the schedule.

CO_2 Display

If a CO_2 sensor is installed, the current CO_2 level can be displayed in the Dot Matrix area.

CO_2 Alert

For CO_2 alerts, set the threshold of the alert from 500 to 2000ppm in 50 ppm (Parts Per Million) increments. The default value is 1100ppm

Clear CO_2

Select when to reset the maximum recorded CO_2 level. It can be reset at Midnight every night, never, or right now in the Installation Menu.

Remote Sensor

Use the onscreen menu to choose between Thermostat Only, Remote Only or Remote Averaged for room temperature control.

Sensor Selection

When Remote Sensor is set to Remote Only or Remote Averaged, you can select between T1 Only or T2 + T2 Avg. for remote sensor input.

T1 and T2 Thermistor

Use onscreen menu to select between Therm Type II or Therm Type III 10K temperature curves.

U1 Input Function

Select between Occupancy Input or 24V Digital, 24V Digital Fault or disabled

Calibration Offset

This will allow the thermostat onboard sensor to be decalibrated up to ±6 ˚F (3.0˚C).

Fan Purge

Select between Off, 30, 60, 90, and 120 Seconds. Off is the default.

1st Stage Differential

Select between 1-6˚F (0.5-3˚C). The value is displayed in the main display. 1˚F (0.5˚C) is the default. The 1st Stage Differential is the temperature degree change required before the thermostat responds.

2nd Stage Differential

Select between 1-6˚F (0.5-3˚C). The value is displayed in the main display. 3˚F (1.5˚C) is the default.

2nd Stage Delay

Select from 5 up to 40 Minutes. The value is displayed in the main display. 20 Minutes is the default.

NOTE: The following options only apply to multi-stage heat pump configuration.

Aux Heat Differential

Select from 1 up to 6˚F (0.5-3˚C). The value is displayed in the main display. 1˚F (0.5˚C) is the default.

Aux Heat Delay

Select from 5 up to 40 Minutes. The value is displayed in the main display. 20 Minutes is the default.

High & Low Balance Point Configuration

If the thermostat is being used as a Heat Pump thermostat and current weather conditions are enabled, or an outdoor sensor is connected to the remote sensor terminals, the thermostat can be configured to disable the use of auxiliary heat during warmer weather and to lock out the compressor during colder weather. If the weather conditions are enabled, the high and low balance point settings are available in the installer menu.

B TIP: Refer to the manufacturer's heat pump equipment manual for temperature cut-offs on the equipment.

Low Balance Point

Select from -54˚F to 39˚F (-48˚C to 4˚C). The value is displayed in the main display. This will lock out the heat pump at the selected outdoor temperature. The default value is -54˚F (-48˚C).

High Balance Point

Select from 41˚F-118˚F (5˚C-48˚C). The value is displayed in the main display. This will lock out the auxiliary heat at the selected outdoor temperature. The default value is 118˚F (48˚C).

Temporary Override During Lockout (Up to 24 hours)

Change the temperature setting temporarily without affecting the schedules, even though the keypad is locked. Use the Up and Down Buttons to adjust the temperature, limited to the Temperature Override Range setting. This temperature will be maintained for the duration set by the Override Timer. To cancel, simply press the Cancel Button.

NOTE: If running an OCCUPIED schedule, the currently occupied setpoint will be shown, and if running an UNOCCUPIED schedule the thermostat will revert to the most previous OCCUPIED schedule setpoints.

Set Clock

If enabled under the Allow Clock Sched section in the Installer Menu, you can set the clock by tapping on the time on the upper right of the display. Then follow the on-screen menu prompts.

Set Schedule

If enabled under the Allow Clock Sched section in the Installer Menu, the Schedules can be edited from an unlocked thermostat by pressing and holding the Pause button until the Set Schedules Interface is displayed on the faceplate. Then follow the on-screen prompts.

Set Extended Override (Hold)

Start a Hold override by tapping the Hold ⏸ icon. Follow the onscreen menu to set the hold days and end time. The current settings will remain in effect until the selected end date and time, or until you cancel by tapping the Cancel ⊗ button.

Auxiliary/Emergency Heat Indicator

The thermostat is equipped with the Emergency Heat icon in the Main Status Icons area on the faceplate which, indicates when the system has engaged auxiliary heat mode or emergency heat mode.

Random Restart

After a power failure, the thermostat will delay the heating / cooling equipment start-up by 1-24 seconds. When multiple NetX™ J-Series thermostats are used, this minimizes the 'in-rush' current (electric power usage) as it reduces the number of HVAC units that will be turned on simultaneously.

Power Failures

This NetX™ J-Series thermostat has an internal power backup that will last for several days. If the thermostat experiences a power outage for less than this time, all functions will resume as soon as power is restored. If the power outage lasts longer, upon power restoration, the J-Series thermostat will recover depending on a few factors.

Time is set via NTP (Network Time Protocol) time server.

When the power is restored and the thermostat connects to the Internet, the thermostat will resume the normal programmed operation.

Time is set manually

When power is restored, the clock will flash 12:00 and will operate in Manual Mode until the time is set.

After the time has been set, the thermostat will resume the normal programmed operation.

On-board Data Logging with Sub-Metering Support

The NetX Platform provides reliable deep-data analysis for runtimes and all thermostat operations. This data can be used to perform sub-metering analysis to bill tenants according to actual HVAC usage for heating and cooling. Onboard memory supports approximately 14 days of records.

Temporarily Unlock Faceplate

When the thermostat screen is locked, you can temporarily bypass the Lock Screen by entering the 4-digit PIN. To temporarily unlock, follow the steps below.

Press the bottom left area of the touchscreen where the Menu Button ☰ is usually located. Temporary Unlock will display in the Dot Matrix Display.

The Dot Matrix area will then display Enter PIN: 0 0 0 0. Use the Up ⊕ and Down ⊖ Buttons to select the first digit in the pin code. Press the Accept Button ✓ (Right Arrow) to enter the first digit.

Repeat Step 2 for the next three digits.

When you enter the correct PIN, the thermostat will return to the main screen and display a countdown timer Unlock: 30 min left in the Dot Matrix Display. To re-lock the screen, press the Cancel Button I on the right.

⚠ **WARNING**: If you enter the incorrect PIN, Wrong PIN will display in the Dot Matrix display. After 3 wrong attempts, the thermostat will return to the main screen and will not allow another attempt for 5 minutes.

Soft Setback

Soft Setback control settings include Occupancy Input, Soft Setback, Occ Recovery, Setpoint Offset, Verify Occ Delay, Min Occ Time, and Unocc Delay. For detailed information on setting the parameters, please see Soft Setback Configuration at the end of this manual.

CONNECT THERMOSTAT TO NETWORK

Before You Begin

Important: Do not install the thermostat until you have gathered all required login credentials and network information.

Set Up Your Primary NetX-Cloud Account

Choosing the appropriate login credentials is an important first step in the NetX-Cloud setup process. These credentials will serve as the primary administrator account for your organization.

We strongly recommend using a dedicated company email address rather than a personal, employee, contractor, or an installer email address. This helps ensure continued access to your account, even if personnel changes occur.

Examples:

- netx@yourcompanydomain.com
- facilities@yourcompanydomain.com

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Guidelines:

- Use a dedicated company email address for the primary account (examples above)
- Create a strong, secure password and store it in a safe location accessible to authorized personnel.
- **DO NOT USE** a personal or employee email address.
- **DO NOT USE** a contractor's or installer's email address for the primary account.

Add Secondary Email Addresses

After your NetX-Cloud account has been created, you can add additional email addresses for billing and thermostat management through the ⚙ icon on the Cloud Customer Profile page.

We recommend adding:

- An accounting email address for billing notifications.
- A facility manager or maintenance email address for thermostat alerts and disconnect notices.

Many organizations do not actively monitor the primary administrator's email account. Adding secondary contacts helps ensure important notifications are received by the appropriate personnel.

Gather Your Network Information

Before beginning installation, verify that this information is available. If you do not know these settings, they can typically be found:

- In your router's wireless settings.
- On a label attached to the router.
- By contacting your network administrator or IT department.

Networks With Enhanced Security

If your organization uses enhanced network security or restricts incoming and outgoing ports, additional configuration may be required for proper communication between the thermostat and the NetX-Cloud platform.

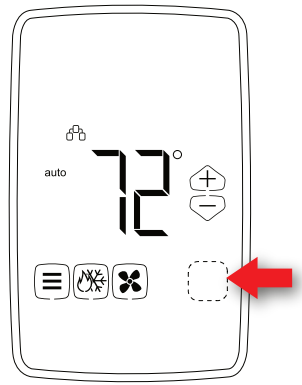
Upon request, we can provide a list of the required ports and communication settings. For security purposes, this information is available only after a signed NDA has been submitted by your IT administrator.

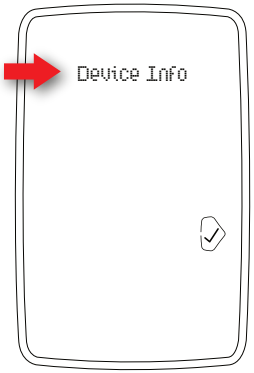
To request this information, please submit a support ticket: Tech Support (**support.networkthermostat.com**)

Retrieve Your IP Address Via the Faceplate

The IP address can be retrieved from the faceplate of your thermostat by accessing the Device Info Menu.

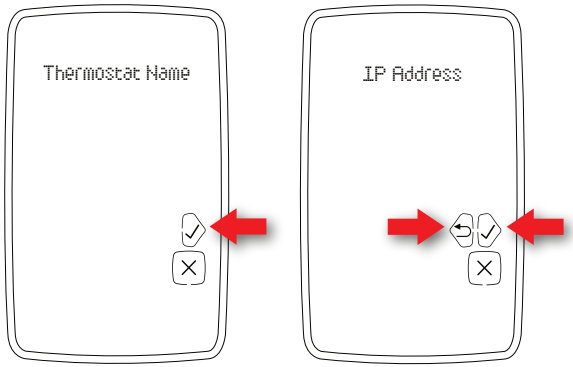
1. Press and hold the area where the Cancel Button is located directly below the Up and Down Buttons for 5 seconds Menu. Do not release this area until the Device Info text displays in the Dot Matrix of the faceplate.
2. Device Info will briefly be displayed in the Dot Matrix display. Then, the thermostat will display Thermostat Name.

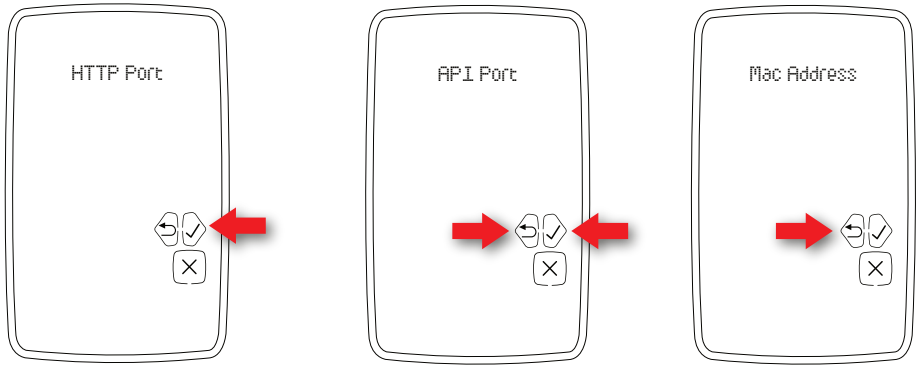




3. Use the Checkmark button and the Return button to switch between the Thermostat Name, IP Address, HTTP PORT, API Port, and MAC Address. WRITE DOWN THE IP ADDRESS. To exit the menu, tap the Cancel button at the bottom right of the display.

HINT: The Checkmark and Return buttons are indicated by red arrows.





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Configure Credentials

Enter the IP Address in your browser, then enter your username (a real email address) and password for the thermostat. Click on the "Save Credentials" button to save your information. You will be taken to the login page for the thermostat. For NetX-Cloud™ configuration go to the URL in the next step ***OPTIONAL - Connect To Your Thermostat Using NetX-Cloud™ Service***



ADDITIONAL SETTINGS AND FEATURES

In addition to the User Menu and Installer Menu, the J-Series thermostat has additional options that can be set using the built-in web pages or via our cloud interface. Please refer to this online guide for setting these additional parameters. Unless otherwise noted, these additional settings are available under the Configuration menu tab of the built-in web pages. Log in to your thermostat via the credentials you added above.

Basic Config Page

Override Timer

On the Basic Configuration page, you will be able to adjust the length of a temporary override condition from 0 minutes to 24 hours, in 10-minute increments. The default override time is 8 hours.

Temperature Override Range (During Lockout)

On the Basic Configuration page, his setting adjusts the temperature variance allowed from the scheduled setpoint when the faceplate is locked. The range is from ±2˚F (1˚C) to ±8˚F (4˚C). The default is ±3˚F (1.5˚C).

HVAC Settings Page

Temperature Calibration Offset

The thermostat is pre-calibrated at the factory, but in some installations, lack of airflow at the sensor or proximity to other warming or cooling sources may cause the temperature to be off by a few degrees. The J-Series thermostat includes a temperature calibration offset with a range of ±6˚F (3˚C) in 0.2˚F (0.1˚C) increments. The Temperature Calibration Offset setting is available on the HVAC Settings web page of the thermostat.

Lock Screen

The J-Series thermostat can restrict and lock out certain functions available from the faceplate. The Lock Screen can be activated from the HVAC Settings web page on the thermostat. When engaged, you can set a 4-digit PIN code that can be used to temporarily unlock the faceplate for 30 minutes.

PROGRAMMING THE THERMOSTAT

This NetX™ thermostat product has factory default programs as indicated below. Based on energy-saving guidelines and recommendations for residential use, these settings can reduce heating/cooling expenses by as much as 33%.

DEFAULT SCHEDULES	HEAT (Mon-Fri)	COOL (Mon-Fri)	HEAT (Sat-Sun)	COOL (Sat-Sun)
MORNING (Schedule 1)	70˚F (21˚C)	76˚F (25˚C)	Inactive	Inactive
DAY (Schedule 2)	Inactive	Inactive	Inactive	Inactive
EVENING (Schedule 3)	Inactive	Inactive	Inactive	Inactive
NIGHT (Schedule 4)	62˚F (17˚C)	82˚F (28˚C)	Inactive	Inactive

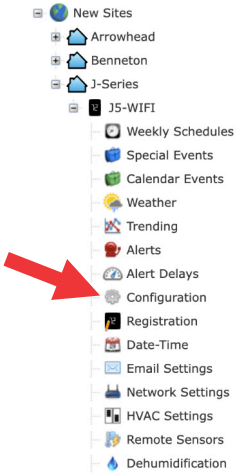
EXTERNAL CONNECTIONS

This thermostat is intended to be used as a Communicating Programmable Thermostat, with changes to the thermostat schedules accomplished over a computer interface via:

1. NetX-Cloud™ Internet-Based Cloud Service
2. Local Network & Port Forwarded Access
3. DirectConnect™ Integrated Web Server for Connectivity from Any Modern Web Browser
4. Integrated NetX™ API, Supports 3rd Party Apps
5. BACnet Integration Option
6. Modbus Integration Option

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OPTIONAL - Connect To Your Thermostat Using NetX-Cloud™ Service



Using a desktop browser, go to the URL

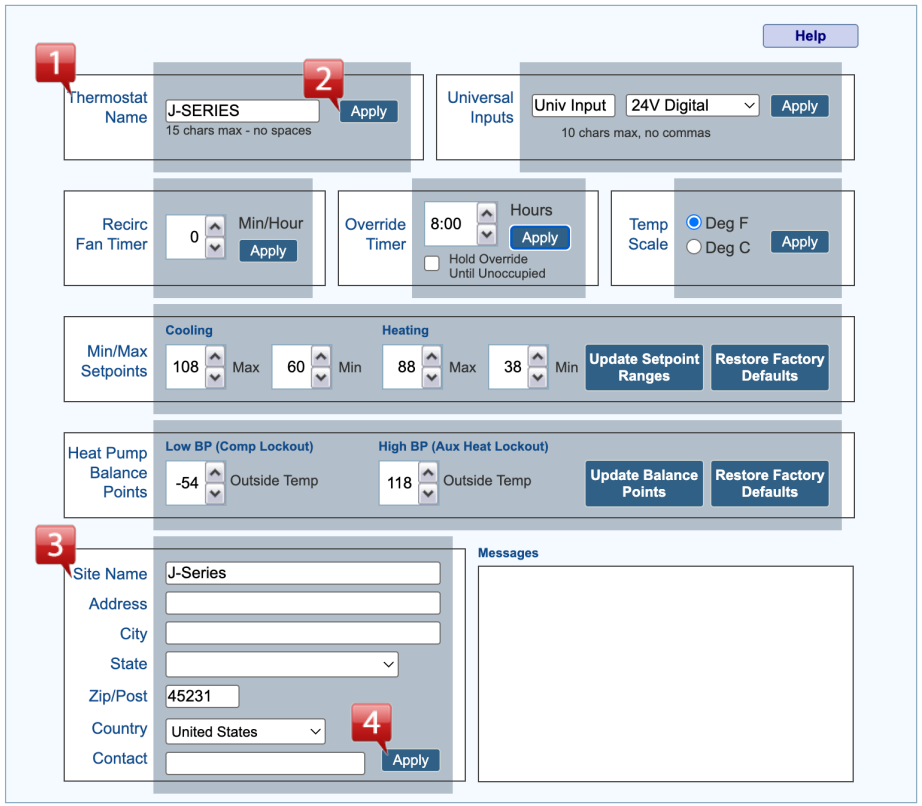
https://netx-cloud.com. Log in with the same username and password you used above.

Once logged in, you will see a dashboard with your thermostats on the right and a drop-down menu on the left. Expand the menu under "New Site" and "Default." Expand the thermostat (click the '+' to the left of the thermostat name) and navigate to the Configuration page.

NOTE: Thermostats are automatically enrolled with free NetX-Cloud™ for 30 days.

NOTE: For more information on NetX-Cloud™ contact us at https://networkthermostat.com/contact for more information.

OPTIONAL - Edit your Thermostat Configuration



1. Enter a unique descriptive name in the Thermostat Name box

   NOTE: Thermostat names may have a maximum length of 15 characters with no spaces.

2. Click the Apply button for the thermostat name to be saved.

Enter the Site Name.

3. Enter the Site Name, complete address, and ZIP Code. The ZIP Code allows the thermostat to access local weather and forecast information.

4. Click the Apply button.

Make any additional adjustments as needed.

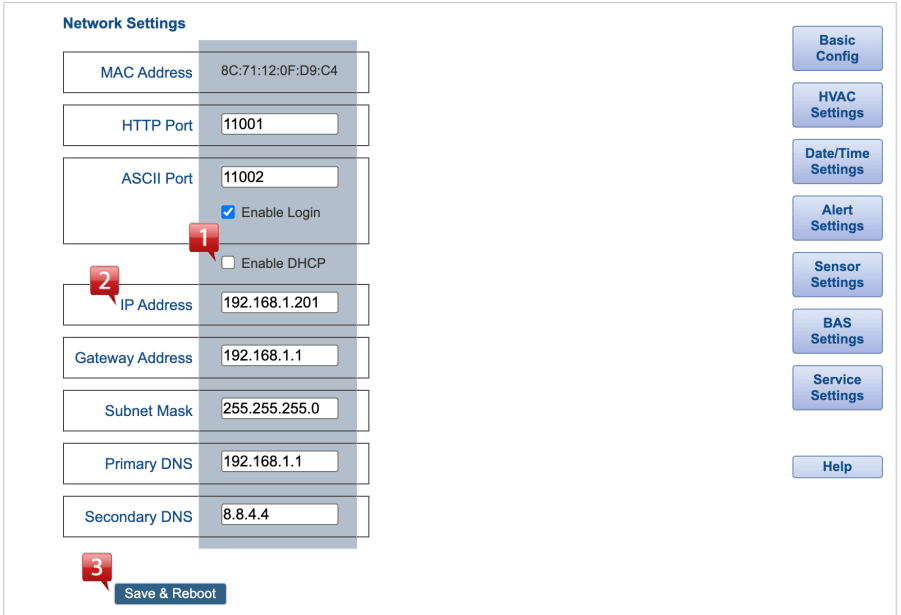
ATTENTION: Make sure to click the appropriate Apply button located in the same block as the parameters you have adjusted. The thermostat will not update its parameters unless the appropriate Apply button is clicked.

DirectConnect™ Application

The thermostat settings can be accessed directly through the embedded web pages. To make the process easier, your thermostat can be configured for a static IP address. Under Configuration/Network Settings,

1. Disable DHCP
2. Set the IP Address
3. Save and Reboot settings

This behind-firewall feature will enable direct access to your thermostat without leaving your network.



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TROUBLESHOOT NETWORK CONNECTION

If you are having trouble communicating with the thermostat, the first thing to check is the network connection status. This is done from the faceplate. There are three possible conditions.

Condition 1: Solid Network Icon

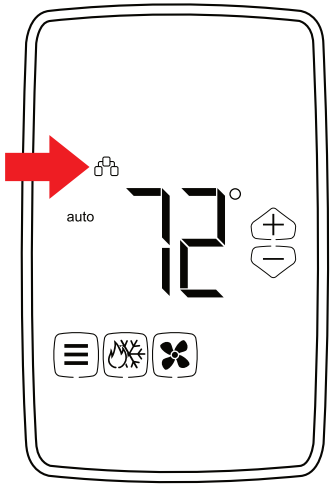
The thermostat is connected to the network and has established an IP address.

Condition 2: Blinking Network Icon

The thermostat is connected to the network but has not resolved an IP address. This only applies to thermostats when the thermostat is set to DHCP mode.

Condition 3: No Network Icon

The thermostat is *NOT* connected to the network.



NOTE: If Condition 2 or 3 exists, first start by checking your network cabling. If the problem persists, check with your network administrator. If all is in proper order, refer to the ***Network Reset*** section of this manual.

THERMOSTAT RESET MODES

There are four (4) types of 'resets' incorporated into J-Series Ethernet thermostats. The reset modes are accessed by entering the Installer Menu on the thermostat faceplate. With an unlocked faceplate (the lock icon is not on), press and hold the Menu Icon for 5 seconds to enter the Installer Menu. Do not release the Menu button until the Installer text displays in the Dot Matrix of the faceplate. Once there, press the right-side checkmark button until you reach the "Exit Menu" section of the Installer Menu. Using the Up and Down buttons you can access the different thermostat reset levels. Refer to the list below to select the appropriate one for your situation.

- **Network Reset:** Resets the Ethernet network settings to factory defaults. User Info and HVAC Controls remain unchanged.
- **User Info Reset:** Resets all User information except the HVAC Controls. Accepting this reset will return the User Info to factory defaults. HVAC Controls and the Network Settings will remain unchanged.
- **HVAC Reset:** Resets all HVAC Controls. The number in the Clock Position displays the number of times the microprocessor has rebooted since the last Factory Reset. Accepting this reset will return the HVAC Settings to thermostat defaults. User Info and Network Settings will remain unchanged.
- **Factory Reset:** Reset the entire thermostat back to factory defaults. The number in the Clock Position displays the number of times the microprocessor has rebooted since the last Factory Reset. Accepting this reset will reset all settings in the thermostat and additionally will clear the internal Datalog and the number of times the thermostat microprocessor has rebooted since the last Factory Reset.

NOTE: Factory reset is best used if moving a thermostat to a different location. Take care in using this option as the datalog information cannot be recovered.

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SOFT SETBACK CONFIGURATION

Occupancy Input

Setting to OCC None will deactivate the occupancy sensor source. Setting the dropdown menu to Occ Module will use the installed Bluetooth module to engage the occupancy sensor settings. Setting the dropdown menu to Occ UI1 Input will use the Universal Input to engage the occupancy sensor settings.

✎ **NOTE:** When UI1 is not set to Occupancy and no Bluetooth module is installed, Occupancy control is not available.

Soft Setback

When Soft Setback is set to On, the Setpoint Offset menu will populate as shown below. Soft Setback will raise the cool setpoint and/or lower the heat setpoint of the current occupied schedule by the number of degrees in the setpoint offset field when the occupancy sensor is in an unoccupied state during a scheduled occupied time. When the occupancy sensor detects an occupant and engages an occupied state, the setpoints will return to the current occupied schedule setpoints.

Occ Recovery

When **Occ Recovery: Soft** (Soft Recovery) is selected from the drop-down menu, triggering an occupied state with an occupancy sensor during an unoccupied schedule will revert the setpoints to the last scheduled occupied setpoints while increasing the cool and reducing the heat setpoints by the number of degrees in the setpoint offset field below. When the occupancy sensor returns to an unoccupied state, the setpoints will return to the regular unoccupied schedule setpoints.

When **Occ Recovery: Full** (Full Recovery) is selected, triggering an occupied state with an occupancy sensor during an unoccupied schedule will revert the setpoints back to the last scheduled occupied setpoints. When the occupancy sensor returns to an unoccupied state, the setpoints will return to the regular unoccupied schedule setpoints.

Setpoint Offset

The number of degrees entered determines the amount of cool and heat setpoints the soft setback and soft recovery will adjust. Range 2˚-8˚F in 1˚F increments (1˚-4˚C in 0.5˚C increments). Default value is 2˚F (1˚C)

✎ **NOTE:** Setpoint Offset is only visible when Soft Setback is set to Setback On or when Occupied Recovery is set to **Occ Recovery: Soft** (Soft Recovery).

Verify Occ Delay

The amount of time in this field will determine how long the occupancy sensor must detect an occupant before starting an occupied state. Range 0-10 minutes in 0.5 minute increments. Default value is 2 minutes.

Min Occ Time

The amount of time in this field is the minimum amount of time the occupied state will last once it has been engaged. Range 0-30 minutes in 0.5 minute increments. Default value is 10 minutes.

Unocc Delay

The amount of time in this field will determine how long the occupancy sensor must not detect an occupant before returning to an unoccupied state. Range 0-30 minutes in 0.5 minute increments. Default value is 10 minutes.

FIVE (5) YEAR LIMITED WARRANTY

Network Thermostat™ warrants to the original purchaser that this product will be free from defects in workmanship and materials for a period of five years from the date of purchase with proof of purchase.

Warranty Limitations

This warranty begins on the date of purchase.

Warranty is Void if:

The date code or serial number is defaced or removed.

The product has a defect or damage due to product alteration, connection to an improper electrical supply, shipping and handling, accident, fire, flood, lightning, or other conditions beyond the control of the manufacturer.

The product is not installed according to the manufacturer's instructions and specifications.

Owner's Responsibility

- Provide proof of purchase.
- Provide normal care and maintenance.
- Pay for freight, labor, and travel.
- Return any defective product.
- In no event shall the manufacturer be liable for incidental or consequential damages.

This warranty gives you specific legal rights, and you may have others that vary by state and/or province. For example, some states and/or provinces do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion may not apply to you. The manufacturer's continuing commitment to quality products may require a change in specifications without notice.

CA Title 24 Requirements

This thermostat meets the Joint Appendix 5 (JA5) requirements for Occupant Controlled Smart Thermostat (OCST) certification of the California Energy Commission (CEC).

FIVE (5) YEAR LIMITED WARRANTY (CONTINUED)

FCC Regulatory Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

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Modbus™ is a registered trademark of Schneider Automation Inc.

SPECIFICATIONS

Rated Voltage: 20-30 VAC, 24 VAC nominal

Rated A.C. / D.C. Current: 0.05 - 0.75A AC, 0.0 - 0.75A DC continuous, per output, surges to 3 Amps maximum

Temperature Control Range: **Heating:** 38˚F to 88°F (4˚C to 31°C) in 1° steps **Cooling:** 60˚F to 108°F (16˚C to 42°C) in 1° steps

Thermostat Sensing Range: 32˚F to 118°F (0˚C to 48°C) **Control Accuracy:** ±1°F @ 68°F (±0.5°C @ 20°C)

Minimum Deadband: 2°F (1°C)

Dimensions: 5.1”H x 3.25”W x 1.08”D (130mm x 82.5mm x 27.4mm)

Mounting: Single Gang Vertical Mount, Standard 3 9/32” Screw Hole Spacing

Equipment Terminations:
R - 24V Switching Voltage
G - Fan
Y1–Compressor 1
Y2 – Compressor 2
W1 - Heat 1 or Aux/Emer Heat
O/W2 - Rev. Valve Cooling or Heat 2
B – Rev. Valve in or Heating

Power Terminations:
R - 24V Switching Voltage (from HVAC equipment)
24V - Separate Power (24 VAC/DC) requires jumper removal
C - Power Return (from HVAC equipment)

Universal Input Termination: 24V Digital Input

10K Thermistor Terminations: T1, T2, GND (both 10K-Type II and 10K-Type III support)

Ethernet: 10/100Mbps, 802.3, Auto Negotiation, Auto-MDIX

Internal Expansion Port: NetX Expansion Port for NetX CO_2 Sensor, NLC Lighting Control, NetX future accessories