NETX™ IP THERMOSTAT : STEP-BY-STEP INSTALLATION GUIDE FOR CLOUDCONNECT™ COMMUNICATIONS

> **DO NOT INSTALL** the thermostat until you have the LAN network connection information, including the *Router's IP address, User Name and Password*.

STEP 1: GET YOUR ETHERNET NETWORK INFORMATION

Confirm your LAN network router information. If you don't already know the DHCP range of your DHCP server on your router, you'll need to log into your router and retrieve that information (which means you'll need the router login information also!). Enter the IP address of your router in the address bar of your browser and log in. The DHCP range will be listed in the DHCP settings area.

STEP 2: DOWNLOAD THE NetX™ DEVICE EXPLORER TOOL

The NetX™ Device Explorer tool can be downloaded here for both PC and Mac

http://www.networkthermostat.com/software/netx-explorer-mac-and-pc

Figure 1 – NetX™ Device Explorer

STEP 3: INSTALL THE ETHERNET THERMOSTAT BACKPLATE

A. Turn off the power to the HVAC unit and then follow the directions included with the thermostat for detailed instructions. Make sure the wires are connected to the correct terminals. In addition to the thermostat wires, there are three (3) wires from the Ethernet backplate. Connect the RED wire to the R terminal (along with the Red wire in the thermostat cable), the BLACK wire to the 24(c) terminal (along with the common wire in the thermostat cable), and the WHITE wire to the X1 terminal. These wires are shipped in the proper locations and are noted here for completeness.
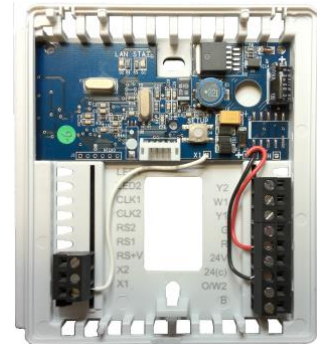

Figure 2 – Ethernet Backplate

B. After installing the thermostat cable, study the thermostat installation pages and set the DIP switches on the back of the thermostat to the desired settings. Some DIP switch settings are required for proper HVAC equipment operation and others are features that may be engaged, as desired.

After setting the DIP switches, set the thermostat aside. Do NOT install the thermostat on the backplate.

C. Turn on the power for the HVAC equipment. When power is applied, the Green LED will be off (indicating the thermostat backplate is not connected to your LAN), and the Red LED will be on steady (indicating the thermostat backplate is not connected to the thermostat).
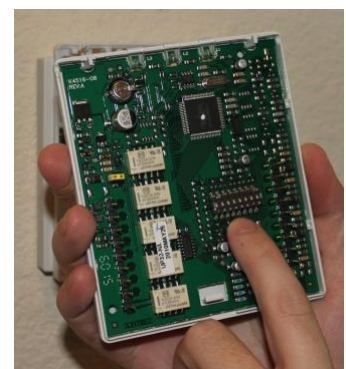

Figure 3 – DIP Switch Location

DO <u>NOT</u> INSTALL THE THERMOSTAT ON THE ETHERNET BACKPLATE YET!

STEP 4: CONNECT TO THE LAN USING THE RJ-45 DONGLE

Connect the RJ-45 dongle to the thermostat backplate by connecting the white connector on the dongle to the white connector on the backplate. Then connect your CAT5, 5e or 6 Ethernet Cable from the router/switch to the RJ-45 connector on the dongle.

Once connected, the green LAN LED on the thermostat backplate will turn on, indicating that the thermostat has been assigned an address by your LAN's DHCP server.

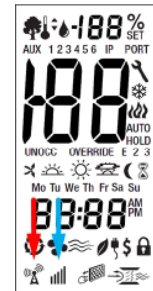## STEP 5: INSTALL THE THERMOSTAT ONTO THE BACKPLATE

Follow the instruction sheet to install the thermostat onto the backplate. When connected, the Satellite icon and the Lightning Bolt icon on the thermostat will turn on.

Satellite Icon Only (Red Arrow):
OFF = No Ethernet connection.
Satellite Icon + Signal Strength Bars (Red and Blue Arrow):
ON = The Ethernet Backplate is connected to the LAN router.

STEP 6: FIND YOUR NetX™ ETHERNET THERMOSTAT USING THE NetX™ DEVICE EXPLORER

Once you have connected to your LAN, start the NetX™ Device Explorer. The Device Explorer will run on any Windows PC and allow you to see and connect to any of your NetX™ Devices on your local network, using only your browser.

After launching Device Explorer, click on the 'Discover Devices' button, and when the replies appear, double-click on the thermostat to go to the thermostat's main page. If you are only going to connect to your thermostat(s) via your local network, the Net/X Device Explorer is the easiest method to access your thermostats.

Double-click on the thermostat to connect to it.

Figure 4 - NetX™ Device Explorer

When the password dialog box is displayed, enter the defaults. (Both are *lower case*).
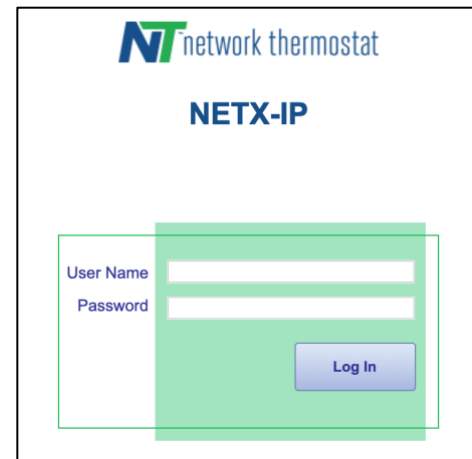
User Name: **admin**
Password: **netx**

Figure 5 - Connection at 169.254.1.1

For added convenience, go to the Basic Configuration page of the NetX™ thermostat and change the thermostat name to something easier to remember than the default name. If you have multiple thermostats on your network, change the name of each of the thermostats to something meaningful. Thermostat names may have a maximum length of 15 characters with no spaces.

If connecting to the thermostat(s) using CloudConnect™ is desired, the connection of the thermostat to your LAN is complete.

Local Connection using NetX™ Device Explorer:
Start the NetX™ Device Explorer and select the thermostat needed. Your default browser will launch and you'll be prompted to enter your user name and password. This simple software utility will always be able to find your thermostats if they are connected to the same network as your PC/Mac.

CONNECTING TO YOUR NetX™ THERMOSTAT USING the CloudConnect™ Service

STEP 7: RECONNECT TO YOUR THERMOSTAT AND REGISTER IT

Now that you have a permanent location for your Net/X Ethernet thermostat, and you've set up port forwarding, you can access it at either the static IP address you assigned above, or using the Net/X Device Explorer. (It's the same location on your network.)

1 Click on the Configuration tab.
This will take you to the Basic Configuration page.

Enter the following information:
2 Thermostat Name (Use a more descriptive name for your thermostat. The name are limited to 15 characters with no spaces. The names are case insensitive). Click 'Apply'.
3 Site Information (Fill out all information in these fields.)
'Site Name' entry allows all thermostats with the same site name to be grouped together in the CloudConnect tool.
'Address/City/State/Country/Zip' allows the thermostat to access your current weather and forecast information. Click 'Apply'.
4 Login Email & Password
The login email address must be a valid address, but the password does NOT need to be the email password for the account. This password is the *Thermostat Login* password and should be different from your email password.
5 Then, to claim your thermostat, click 'Register Thermostat'.

Figure 6 - Basic Configuration & Registration

The thermostat will briefly, securely, connect to the NetX Remote Login Server and store the necessary information (encrypted, of course) so you can use your thermostat(s) with CloudConnect™. When this process is complete (usually only a few seconds), you'll see a message that reads **Claimed** just to the left of the 'Register Thermostat' button.

STEP 8: CONNECT TO YOUR THERMOSTAT USING NetX™ CloudConnect™ SERVICE

Now that you're all set up, you can use any current release browser (Firefox, Internet Explorer, Chrome, or Safari) to log into your thermostat(s) using the CloudConnect™ service.

Simply go to networkthermostat.com and click **CloudConnect™ Login** in the upper right hand corner (or, go to https://netx-cloud.com). When you log in with your user name (email) and password, you will see your list of your thermostats, but the 'location' will be blank.

To update the location to the 'Site Name' you entered, simply expand each thermostat (click the '+' to the left of the thermostat name), then navigate to the Basic Configuration page under the thermostat. NetX™ CloudConnect™ will then record the site name. Follow this same process for each of your thermostats, and then log out and log in again. When you log in again, the Site Name will be seen for the location. If you'd like to separate your thermostats into different locations (groupings can be of anything that makes sense to you), just update the Site Name on the Basic Configuration page, log out and log back in.

Every thermostat is automatically enrolled for CloudConnect™ for 30 days starting the day the thermostat is registered. If you'd like to continue the subscription to the service after the 30 days, purchase a subscription at www.networkhvac.com.

If you decide you don't want or need the CloudConnect™ service, refer to the DirectConnect™ instructions and move your thermostat to a static IP address and port forward your router, as described in the DirectConnect™ documentation.