PRECAUTIONS
Read and understand all instructions before beginning installation.

NOTICE: For installation by a licensed electrician in accordance with National and/or local Electrical Codes and the following instructions.

Disconnect switch or a circuit breaker must be provided and marked as the disconnecting device.

Disconnect switch / circuit breaker must be within reach of operator.

CAUTION: RISK OF ELECTRICAL SHOCK. Turn power off at service panel before beginning installation. Never wire energized electrical components.

CAUTION: USE COPPER CONDUCTOR ONLY
Confirm device ratings are suitable for application prior to installation. Use of device in applications beyond its specified ratings or in applications other than its intended use may cause an unsafe condition and will void manufacturer’s warranty.

NOTICE: Do not install if product appears to be damaged.

SAVE THESE INSTRUCTIONS!

DESCRIPTION
The Hubbell Control Solution NX Area Controller is the central component in an NX Networked Lighting Control System. The Area Controller contains the system processor, web server based user interface, solid state disk storage and network interface components required for system operation. The Area Controller connects with the NX network components using a HubbNet™ POE (power over Ethernet) CAT5e network. A standard Ethernet connection is provided in addition to allow the Area Controller to be connected directly to a PC, to a dedicated BAS network or an Enterprise IT network. The NEMA1 grade enclosure has a hinged locking door and is suitable for surface wall mounting in a conditioned electrical room.

Figure 1: Component Layout
INSTALLATION
1. Do not install the Area Controller in an unconditioned space.
2. The Area Controller is shipped completely assembled and requires some disassembly for installation.
3. Remove the screw on cover and set aside
4. Unplug the low voltage power supply connector from the interface board located near the HubbNet™ network connectors.
5. Remove the four screws retaining the interior mounting plate to the rear housing. Carefully remove the interior assembly and set it aside.
6. Remove the screw retaining the high voltage compartment cover and set the cover aside.
7. With the interior removed and safely stored, proceed with mounting the enclosure to the wall in a suitable location using the three keyhole mounting holes.
8. Remove the appropriate conduit knock out in the high voltage section of the housing and proceed with connecting to a source of 120 volt power. It is highly recommended that the Area Controller be powered from a dedicated circuit breaker.

**Note:** If necessary, the Area Controller can be powered by a 277 volt circuit. Carefully, follow the wire color markings on the power supply housing.
9. Re install the high voltage area cover.
10. Carefully re install the interior mounting plate into the enclosure using the four provided screws.
11. Re connect the low voltage power supply connector to the interface board connector observing the plug polarity.
12. All additional connections to the Area Controller will be made using CAT5e cable with RJ-45 connectors.
13. The Area Controller supplies 24VDC power to the HubbNet network which provides backup power to the NXHNB Network Bridge Modules. The right hand RJ45 port labeled “HUBBNET OUT” on the circuit board is used to connect the NXHNB Network Bridge Modules to the Area Controller using CAT5e cable. See figure 2.
14. The left hand RJ45 port on the Area Controller circuit board labeled “HUBBNET IN” is used to connect NXP series relay/dimmer panel(s) if present.

STARTING UP THE ARE CONTROLLER
1. Energize the circuit feeding the Area Controller.
2. Using a standard CAT5e or CAT6 Ethernet patch cable (not supplied) connect a PC to the RJ-45 port in the Area Controller labeled “User Interface Ethernet”.

**Note:** The area controller has DHCP capability and will automatically assign a connected PC an IP address.
3. Open your browser (Internet Explorer or equal) and type 192.168.1.1 into the URL address line at the top and press Enter. This is the default IP address of the area controller as shipped from the factory.

4. The NX™ Area Controller Start up Wizard screen will appear. This Wizard will guide you through the first time setup of the Area Controller. It will only be necessary to do this one time.

5. Click Next to proceed.

6. Type in the Facility ID and Facility Name. Note: the Facility ID must be a number and the Facility Name will appear at the top of the navigation tree in the user interface. Then click Next.
7. Unless you have been directed to enter specific settings by your IT department or HCS technical services, accept Yes and click Next.

8. **CAUTION: This step is extremely important.** Do not make any changes on this screen unless you are very familiar with this process or you have been given specific settings by your IT department or HCS Technical Service. If you change any setting on this screen you will no longer be able to connect to the Area Controller using the default configuration.
9. Click Finish to exit the Wizard. The Area Controller will save the settings and will re boot. After a short time, you will be able to connect and log in to begin the site specific configuration and commissioning of your system. Refer to the NX™ Area Controller Operation Guide for additional information on setting up and using your system.

10. At the completion of the Setup Wizard, close and reopen the browser and enter the default IP address (192.168.1.1) or the IP address you assigned to the Area Controller during the Setup Wizard dialog.

11. The log in screen will appear:

12. Type the default credentials which are:

Username = “admin”
Password = “admin” then click the Login box.
The following steps require that the NX™ HubbNet™ network has been installed and connected to all appropriate NX control devices. Refer to the submittal documents supplied with your system.

1. Click on the large Start Discovery of Network Devices button in the center of the screen
   
   Note: the time required for the discovery will be determined by the size of the system. At the completion of the discovery, a folder titled Uncommissioned Devices will appear under My NX in the navigation tree

![NX Networked Lighting Controls]

2. Click on the + symbol to open the Uncommissioned Devices folder
3. Click on the + symbol to open the Bridges folder (if present)
4. Click on the + symbol to open the Panels folder (if present)
5. Click on the + symbol to open the Modules folder (if present)
6. You can now count the discovered devices and determine that all devices are accounted for in the various folders.
   
   For devices not discovered, one of the following is the likely cause:
   
   • The devices is not installed
   • The device is not powered
   • The device is not connected to the HubbNet network
   • There is a network wiring error, poorly or incorrectly installed RJ45 connectors, etc.