

The NetBotz® USB Coordinator & Router (NBWC100U) connects to a NetBotz Room Monitor 455 and NetBotz Rack Monitor 450, 550, or 570, allowing you to monitor the temperature and humidity in your data center using the Wireless temperature Sensor (NBWS100T and NBWS100H). You can also use the Wireless Sensor Pod 180 (NBPD0180) to monitor multiple temperature readings and rack door access.

The USB Coordinator & Router requires a minimum of BotzWare version 4.4 and Advanced View 4.4.

To upgrade Advanced View, and the BotzWare version installed on your appliance, use the **Upgrade** icon in your NetBotz appliance Advanced View, or visit the APC web site.

The USB Coordinator & Router can be configured as a Coordinator or a Router in a wireless network. Each wireless network must have one Coordinator, powered by a USB connection to the NetBotz appliance. Routers are powered by the AC-USB adapter, separate from the NetBotz appliance. Routers are optional; one Router for every three racks is recommended. End Devices are powered last.

The NetBotz Rack Monitor 450 appliance supports a total of **26** wireless devices on the wireless sensor network. The NetBotz Room Monitor 455, Rack Monitor 550, and Rack Monitor 570 appliances support a total of **48** wireless devices on the wireless sensor network.

The following wireless devices can be configured as a Coordinator or Router:

Sensor	Range	Part Number
NetBotz USB Coordinator & Router	100 ft. – line of sight	NBWC100U
NetBotz Wireless Sensor Pod 180	100 ft. – line of sight	NBPD0180

The following wireless devices can be configured as an End Device:

Sensor	Range	Part Number
NetBotz Wireless Temperature Sensor	100 ft. – line of sight	NBWS100T NBWS100H
NetBotz Wireless Sensor Pod 180	100 ft. – line of sight	NBPD0180

Note: For information about using the Wireless Temperature Sensor or the Wireless Sensor Pod 180 on your wireless network, see the installation manual that came with the device.

Instructions

Scan the **MAC address** bar code on the label packaged with each USB Coordinator & Router.

You can use a hand-held USB scanner with document capture capabilities to scan the **MAC address** bar code on the label packaged with the USB Coordinator & Router, or the QR code on the Wireless Temperature Sensor or Wireless Sensor Pod 180, directly into the “Add Addresses” dialog, accessed from the Wireless Sensor Setup task in the Advanced View.

Alternatively, you can use any barcode or QR code scanner to save a list of MAC addresses to a text file, one address per line, and copy and paste it into the dialog, or enter the addresses manually.

Note: Some QR code scanners return the part number, serial number, and MAC address on one line:

XN:NBWC100U%SN:XXXXXX123456%MAC:00C0B70000XXXXXX. To add a device to your wireless network, enter **only** the alphanumeric MAC address of each device in the “Add Addresses” dialog in the Advanced View.

1. Attach the USB scanner to the computer running Advanced View.
2. Log in to the NetBotz appliance hosting your wireless network using Advanced View; select the Configuration tab, and double-click the **Wireless Sensor Setup** icon.
3. Click **Add**. With the “Add Addresses” dialog open, scan the **MAC Address** bar code on the label of each USB Coordinator & Router, or the QR code on each Wireless Temperature Sensor or Wireless Sensor Pod you want to add to your wireless network.
Note: Ensure only the MAC address of each device is in the list, one per line.
4. Click **Apply Commission List** to save the list of MAC addresses to the NetBotz appliance.

The order in which you power and configure your wireless network is important. For best results, power and configure your wireless network as follows:

1. **Select the Coordinator and the Routers.** Choose one USB Coordinator & Router that will become the Coordinator. Note the MAC address of the Coordinator. Choose one or more USB Coordinator & Routers to become Routers (optional).
2. **Mount the sensors.** Choose the locations for the Routers and End Devices. To conserve battery life, do not power the Routers or End Devices at this time.
3. **Power the Coordinator.** Power the Coordinator **FIRST**. Connect **one and only one** USB Coordinator & Router to a USB Type A port on the NetBotz appliance. This device will automatically be configured as the Coordinator on your wireless sensor network.
4. **Power the Routers.** Use the included adapter to connect each Router to an AC-USB power source separate from the NetBotz appliance.
6. **Power the End Devices.** Turn on the Wireless Temperature Sensor using the rocker switch on its side. To power the Wireless Sensor Pod 180, insert the batteries included with the product.

LED Activity

During the boot process in both Coordinator and Router mode, LED activity is as follows:

- Flashes a quick green, yellow, red sequence
- Alternately flashes green and yellow for about 30 seconds
- Flashes green 3 times
- Turns solid yellow for 5 seconds
- Flashes a quick green, yellow, green sequence

Note: If the LED flashes red three times, then slowly flashes red, contact Technical Support.

After the boot process is complete, LED activity on the USB Coordinator & Router signifies its status:

Coordinator LED Activity

LED Activity	Meaning
Flashes green	Normal. The network was formed successfully.
Off	Forming a network
Solid green	Joined another network as a Router.
Solid red	Unable to form a network. Relocate the Coordinator. Reboot the device. *

Router LED Activity

LED Activity	Meaning
Solid green	Normal. Joined the network as a Router.
Solid yellow	Searching for network
Off	The device was previously configured as a Coordinator. Reset the device to factory defaults. **

* To reboot the USB Coordinator & Router:

Press and hold the reset button for no more than three seconds.

The device will operate in the mode in which it was configured before the reboot.

** To reset the USB Coordinator & Router to factory defaults:

Press and hold the reset button for at least 5 seconds. Release the reset button when the LED is solid red.

The device will reset, erase its current settings, and return to Router mode, the factory default.

For more information about installing and configuring the USB Coordinator & Router, please refer to the Installation Guide, or contact Technical Support at 877-908-2688 for assistance.

To contact a local, country-specific Schneider Electric Customer Care Center, go to www.apc.com/support/contact.