CVS DIGI Temp Alert Install Guide v.1.0

REQUIRED MATERIALS:

- 4” Natural Cable Ties
- Cable Tie/Tape Cutting Utensil
- Label Maker
- 3M Dual Lock Reclosable Fastener Tape
- 1”x1” Natural Cable Tie Mounts
- Scotch Extremely Strong Mounting Tape

IMPORTANT CONTACT INFO:

NET DIGI QUEUE: **608.828.2656**

DSS EMAIL: dss@nettechnology.com

When Emailing photos be sure to include the following:

- Work Order # in [brackets]
- EX: [1234567]

Section 1- Arrival to Site, Log in & Survey

Step 1- Log In & Survey

Step 1.1 – Log in with NET support at **608.828.2656.** **Provide Name/Work Order Number**. Have NET tech verify the store address and SOW with you.

Step 1.2- Survey Existing Equipment. Survey the Device IDs, quantity and location of devices. Take photos of each device— both wide shots, and close ups, with device IDs visible. Once submitted to DSS, call in to report devices onsite to NET.

ACTION ITEM: Take photo(s) of extra equipment onsite and submit to DSS.

Figure 1.2a- Wide View of Extra Equipment

Figure 1.2b- Close up of Extra Equipment

Section 2- New Store

Step 1- Gateway Setup

Step 1.1- If no additional devices are present, begin install with Gateway setup.

- Remove BZ Gateway from packaging & plug power adaptor into the BZ gateway.

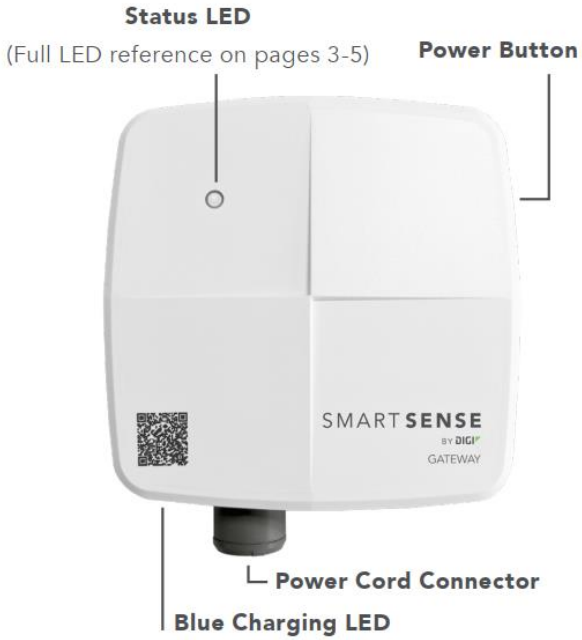


Figure 1.1a- BZ Gateway Reference

Figure 1.1b- BZ Gateway Setup

- Plug the BZ Gateway into a designated electrical outlet to charge.
    - **Note: It may take up to 30 minutes for the device to charge.**
- Use the signal finder mode on the BZ Gateway to determine an install location with the best cellular signal strength. To enter signal finder mode, hold the power button for more than 2 seconds but less than 5 seconds**. A white LED will flash repeatedly to indicate that you are in signal finder mode.**
- To achieve best connectivity, move the Gateway around the install location until the white LED begins to quickly blink. (A quickly blinking RED LED means POOR SIGNAL).
    - **The faster the white LED blinks the stronger the cellular signal.**

Step 1.2- Once a good location has been found, quickly press and release the power button to exit signal finder mode.

- **DO NOT MOUNT YET.** If there is trouble configuring, call NET support for troubleshooting. For correct configuration refer to the LED reference charts below:

LED REFERENCE GUIDE			
Status	**White LED**	**Red LED**	**Description**
Power On	▭	-	1 long white LED flash
Last Upload Successful	○	-	1 short white LED flash every 30s
Low Battery	○	●	1 short white LED flash followed by 1 short red LED flash, every 30s
Low Battery Preventing Communication	-	●	1 short red LED flash, every 30s
Low Cellular Signal	○	● ●	1 short white LED flash followed by 2 short red LED flashes, every 30s
No Cellular Signal	-	● ●	2 short red LED flashes, every 30s
Contact SmartSense Support	-	● ● ●	3 short red LED flashes, every 30s
Hardware Failure	-	●••●••●	Continuous blinking red LED

Figure 1.2a- Gateway LED Reference Guide

BZ Gateway Firmware Update (Firmware updates happen infrequently and one should not expect to observe these LED patterns with any regularity)		
Event / Status	**LED Pattern**	**Notes**
Verifying installed firmware	White LED on	• The BZ Gateway validates its firmware every time it reboots. • Firmware validation requires less than 0.5s • White LED will not be visible turned off between end of validation and beginning of application launch (after which white LED will remain on for 5s)
Connecting to firmware server	1 white LED flash every 1 second	• If firmware server is reachable, a connection should be established in less than 60s • If the firmware server is unreachable, the device will continue to automatically retry (no user intervention is necessary)
Downloading and installing new firmware	2 white LED flashes every 1s	• Firmware download should complete in 10min or less
Battery too discharged to download new firmware	1 white LED flash and 1 red LED flash every 1s for 5s of every minute i.e. • White LED on for 100ms • Both LEDs off for 400ms • Red LED on for 100ms • Both LEDs on for 400ms • Repeat the above a total of 5 times • Both LEDs off for 55s • Repeat all of the above indefinitely	• Plug-in device to initialize battery charging • If device is already plugged-in, allow batteries up to 4 hours to charge
Hardware failure	1 red LED flash every 2s	• Contact SmartSense

Figure 1.2b- Gateway Firmware Update Chart

BZ Gateway Application Events		
Event	**LED Pattern**	**Notes**
Powered-on (by pushing button or plugging-in)	White LED on for 5s	N/A
Button depressed	White LED on immediately	N/A
Button released after less than 2s	Status Report: 1. Both white and red LEDs off for 0.5s 2. White LED on for 1s 3. Red LED on for 1s 4. Both white and red LEDs off for 0.5s 5. White and red LEDs flash status code as described above	N/A
Button held for more than 2s	White LED flashes rapidly	• Release button to start signal finder mode
Button released after more than 2s and less than 5s	Signal finder mode, signal strength: • 0/10 - red LED blinks every 200ms • 1/10 - red LED blinks every 300ms • 2/10 - red LED blinks every 400ms • 3/10 - red LED blinks every 800ms • 4/10 - white LED blinks every 800ms • 5/10 - white LED blinks every 700ms • 6/10 - white LED blinks every 600ms • 7/10 - white LED blinks every 500ms • 8/10 - white LED blinks every 400ms • 9/10 - white LED blinks every 300ms • 10/10 - white LED blinks every 200ms	• Momentary button press will exit signal finder mode • Signal finder mode will timeout after 3 minutes • Signal strength 4 and higher (white LED) is generally acceptable and will prevent the weak signal strength status warning
Button held for more than 5s	Initialize power-down: • Red LED continuously fades from 100% to 0% brightness and then repeats	• Release button to confirm power-down • Continue holding button more than ~10s, i.e. through device reset, to avoid powering-down
Button released after more than 5s and less than ~10s	Finalize power-down: • Red LED continues continuous fading until power-down is complete • Fading stops, and both LEDs off when power-down is complete	N/A
Button held for greater than ~10s	Device reset: • Hardware undergoes hard reset • White LED on for 5s (same as power-on, see above)	• Duration that button must be held to trigger a reset varies with temperature. It may be as short as 8s and as long as 20s
Button released after more than ~10s	N/A	• Neither continuing to hold the button or releasing the button after a device reset has nay effect

Figure 1.2c- Gateway Application Events Chart

BZ Gateway Application Status		
Status	**LED Pattern**	**Notes**
Last upload successful	1 white flash every 30s (may be followed by red LED flashes, see below)	N/A
Last upload failed (any reason)	No white LED flash	N/A
Low battery	1 red LED flash every 30s (may be combined with white flash)	• Plug in device to initialize battery charging • If device is already plugged-in, allow batteries up to 4 hours to charge
Weak cellular signal	2 red LED flashes every 30s (preceded by white LED flash indicating last upload was successful)	• Relocate device to area with better cellular signal (Use signal finder mode to locate better signal)
No cellular signal	2 red flashes every 30s (without white LED flash, indicating last upload failed)	• Relocate device to area with better cellular signal (use signal finder mode to locate better signal)
Not registered with cellular provider, or unable to activate cellular data connection, or not registered with SmartSense	3 short red LED flashes, every 30s (without white LED flash as it is not possible to successfully upload data in this state)	• Contact SmartSense
Hardware failure	1 red flash every 2s (may be combined with white LED if last upload was still successful despite hardware failure)	• Contact SmartSense
AC power present	Blue LED (near power receptacle) on	N/A
No AC power	Blue LED off	• Double-check that power adapter is plugged-in to both BZ Gateway and wall receptacle

Figure1.2d- Gateway Application Status

Step 2- Front Store Install

Step 2.1- Once Gateway is correctly configured, begin Front Store installation. Gather necessary quantity of nodes/accessories FS. They will NOT need Nists or Digital Screens. If extra equipment is onsite, do not install. Record QTY and set aside.

ACTION ITEM: Record QTY of any extra equipment for FS install.

Step 2.2- Power on Node and using Magnets on Node or cable-ties, place inside cooler or freezer. Place inside as shown below.

ACTION ITEM: Take Photos of Installed Nodes in FS coolers and freezers.

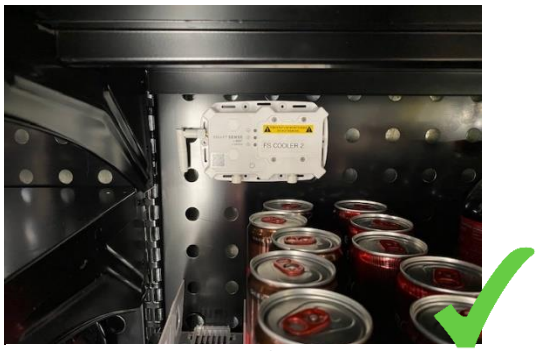


Figure 2.2a- Correct FS Node Positioning

Figure 2.2b- Correct FS Node Positioning

Step 2.3- Affix QR code to the outside of cooler or freezer, usually near brand name as shown below:

- Do not place on glass door.
- Do not cut QR code out.
- Do not stick to node.

ACTION ITEM: Take Photos of FS QR codes and submit to DSS.

Figure 2.3a Incorrect FS Install

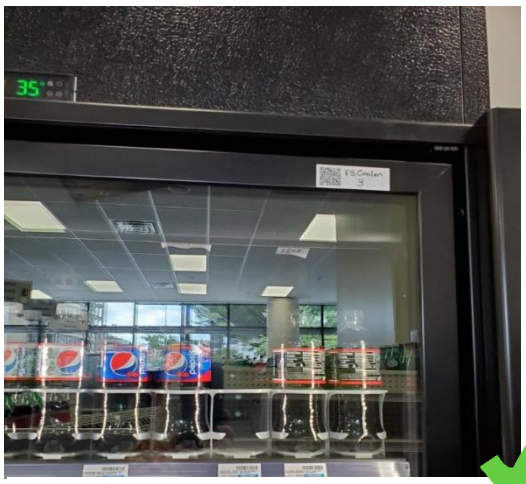


Figure 2.3b Correct FS QR install

- Be sure that the node and QR code is labeled correctly EX: FS Cooler 1 or FS Freezer 1.
- Repeat for all necessary units.

Step 2.4- Record Make & Model Numbers of the Front Store coolers and freezers on the data sheets. Be sure to write clearly and legibly.

ACTION ITEM: Record make & model of FS coolers and freezers as well as the devices that are in them.

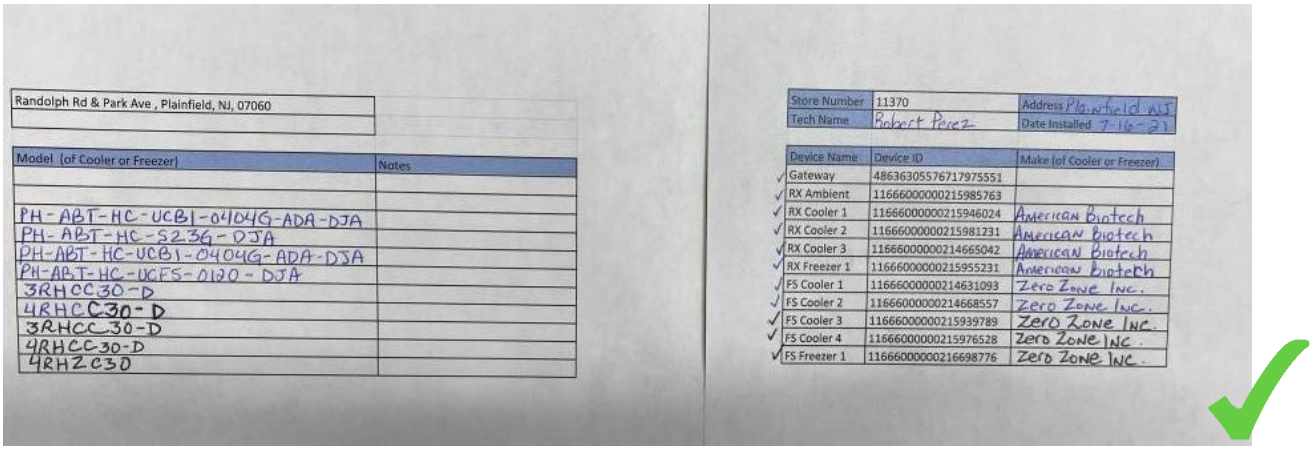


Figure 2.4- Proper Recording of equipment make & model

Step 3- RX Install

Step 3.1- Once Front Store install is complete, gather the necessary nodes, NIST sensors, screens and any other accessories for the RX units. These units will need both a NIST sensor and screen.

ACTION ITEM: Record QTY of any extra or missing equipment for FS install.

Step 3.2- Power on Node and install NIST.

- Be sure to install the **NIST unto PORT 1** on the node. Be careful as these are delicate.

NIST sensors connect via a 5-pin connector. It is correctly positioned when the @ is aligned with the label for Port 1. Do not force a sensor into the port.

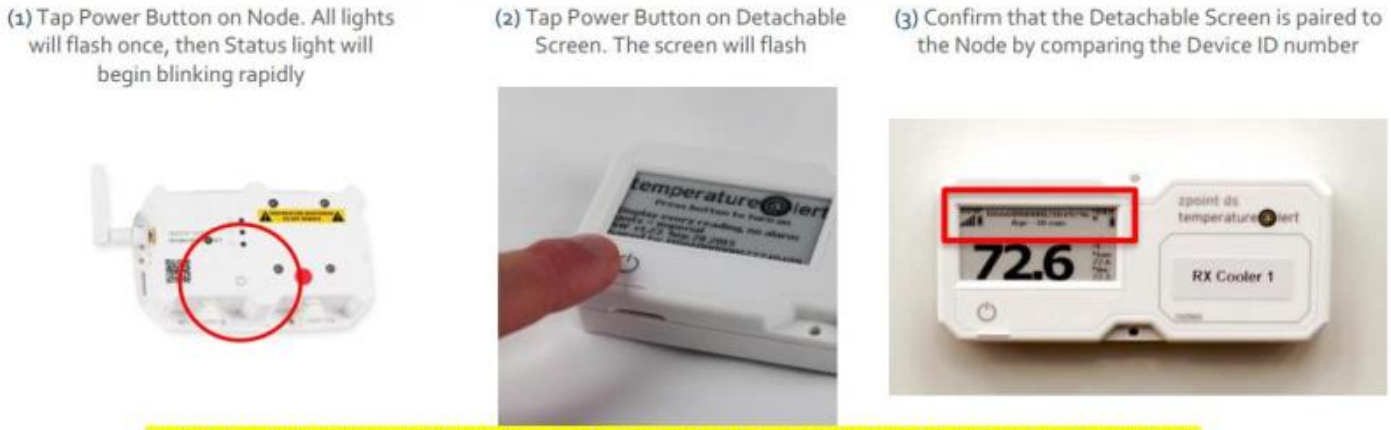
Figure 3.2a- Proper NIST Installation

- Be sure that the node has successfully connected to the network. It will flash once on green. Reference the below chart for successful connection.

ZPoint Wireless Node LED Reference					
LED		1 Blink	2 Blinks	3 Blinks	Fast Blinking
✓		Last transmission to Gateway successful	Last transmission to Gateway successful, but low signal		Attempting to transmit to Gateway
?		No external sensor	Low battery		
✗		Not registered to Sensor Cloud	No signal	Failed to communicate with wireless radio module	

Figure 3.2b- ZSensor LED reference guide

Step 3.3- Power on ZScreen and ensure that each ZScreen is paired properly with each RX device as shown below.



Note: Detachable Screens will only be with devices in the Pharmacy. NOT in Front Store or Minute Clinic.

Figure 3.3 ZSensor Configuration

Step 3.4-Once powered on and configured correctly, install nodes in RX coolers & freezers with the following notes in mind:

- Be sure that the label is visible if installing on the side of the cooler.
- **In freezers**, nodes must be installed **under OR on top** the rack with zip ties as shown in ***figure 3.4b*** due to frosting.
- Make sure that the **NIST is facing towards outwards (towards door)** for easy replacement

ACTION ITEM: Take Photos of Installed Nodes in FS coolers and freezers

Figure 3.4a- Correct RX Cooler Install

Figure 3.4b- Correct RX Freezer Placement

Step 3.5- Affix QR code to the outside of cooler or freezer, usually near brand name as shown below:

- Do not place on glass door.
- Do not cut QR code out.
- Do not stick to node.

ACTION ITEM: Take Photos of RX QR codes and submit to DSS.

Figure 3.5a- Correct QR & ZSensor Placement for RX

Figure 3.5b- Incorrect QR & ZSensor Placement for RX

- Be sure that the node and QR code is labeled correctly EX: **RX Cooler 1 or RX Freezer 1.**
- Repeat for all necessary units.

Step 3.6- Record Make & Model Numbers of the Pharmacy coolers and freezers on the data sheets. Be sure to write clearly and legibly.

ACTION ITEM: Record make & model of RX coolers and freezers as well as the devices that are in them. You will use the same data sheet as shown in ***fig. 2.4***

Step 4- RX Ambient Install

Step 4.1- Install RX Ambient node. This node does **NOT need a NIST sensor**. It **DOES require a screen**.

- Device will go on shelf or wall in RX, not in cooler or freezer. It reads ambient room temperature. The QR code should go next to the node.

ACTION ITEM: Take photo of RX Ambient Placement and submit to DSS.

Figure 4.1- Proper RX Ambient Placement

Step 5- Mounting the Gateway

Step 5.1- Mount Gateway

Once all nodes have been installed, call in to NET support at **608.828.2656. Provide Name/Work Order Number.** Let support know the following information:

- That all nodes have been installed and you are about to mount the Gateway—
  - They will check for signal readings in order to determine if the gateway placement has an adequate signal. **If not, they may ask you to move it to another location.**
- If the signal is good- NET support will tell you to mount the device and take photos of the installation.

ACTION ITEM: Take photo of RX Gateway Placement and submit to DSS.

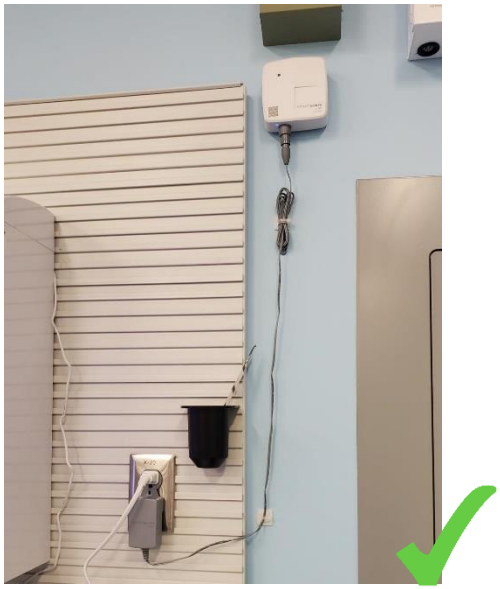


Figure 5.1- Correct Gateway Mounting

Section 3- Log-out & Departure from site

Step 1- Log out

Step 1.1- Once all devices have been installed and your photos have been submitted to DSS call into NET support at **608.828.2656. Provide Name/Work Order Number**.

Step 1.2- NET technician will go through log out questions with you. If more clarification is needed on photos they may ask you to submit more and call back in. Be sure to let your NET tech know about delays encountered on site.

Step 3- Clean-up & Departure

Step 1.3- **Once logged out, ensure all areas you worked in are cleaned up**. Any extra materials can be left onsite per confirmation with your NET technician. You are now logged out.

Section 4- Relocated Store

Step 1- Log In & Survey

Step 1.1 – Log in with NET support at **608.828.2656.** **Provide Name/Work Order Number**. Have NET tech verify the **OLD & RELOCATION** store address and SOW with you.

Step 1.2- Survey Existing Equipment. Survey the Device IDs, quantity and location of devices. Ensure that all devices are accounted for per the data sheet.

- If any equipment is missing, report it to NET support. With QTY and device IDs.

Step 1.3- Call NET support to notify them you are leaving Old store.

Step 1.4- Call NET support to notify them once onsite at Relocated store.

Step 1.5- See Section 1 of this guide for continued setup.