

ONSET CX5000 InTemp Gateway Instruction Manual

Home » Onset » ONSET CX5000 InTemp Gateway Instruction Manual



InTemp® CX5000/CX5001 Gateway Manual



The In Temp CX5000/CX5001 Gateway uses Bluetooth® Low Energy (BLE) to regularly configure and download data from up to 50 CX series loggers and upload the data to the In Temp Connect® website automatically using Ethernet or Wi-Fi. The gateway requires an In Temp Connect website account with gateway privileges and a phone or tablet with the InTemp app installed to set up the gateway.

Contents

- 1 InT emp CX5000/CX5001 Gateway
- 2 Specifications
- 3 Setting up the Gateway
- **4 Deployment and Mounting Guidelines**
- **5 Connecting to the Gateway**
- **6 Grouping Gateways with**

InTempConnect

- 7 Documents / Resources
 - 7.1 References

InT emp CX5000/CX5001 Gateway

Included Items:

- · Mounting kit
- AC adapter

Required Items:

- In Temp Connect account
- In Temp app
- Device with iOS or Android™ and Bluetooth
- · CX series loggers

Specifications

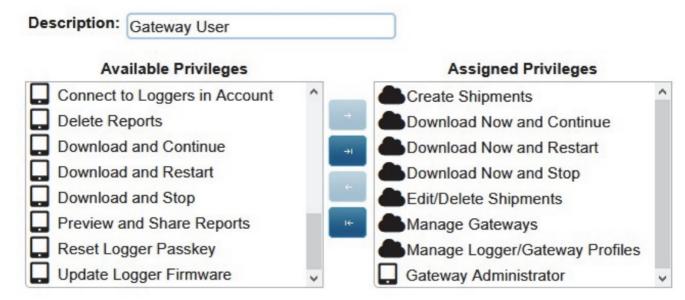
Transmission Range	Approximately 30.5 m (100 ft) line-of-sight
Wireless Data Standard	Bluetooth 4.2 (BLE)
Connectivity	WiFi 802.11a/b/g/n 2.4/5 GHz or 10/100 Ethernet
Power Source	AC adapter
Dimensions	12.4 x 12.4 x 2.87 cm (4.88 x 4.88 x 1.13 inches)
Weight	137 g (4.83 oz)
CE	The CE Marking identifies this product as complying with all relevant di rectives in the European Union (EU).

Setting up the Gateway

Follow these instructions for setting up the gateway in your current location. If you are an IT administrator configuring the gateway for use at a different location, see Setting up the Gateway at a Different Site.

1. Set up roles on the InTempConnect website for gateway privileges.

- a. Go to <u>www.intempconnect.com</u> and follow the prompts to set up an administrator account or skip to the next step if you already have an account.
- b. Log in to the account at www.intempconnect.com.
- c. If you are an administrator or if you created the account and you are setting up the gateway, skip to step 2; you automatically have the required privileges. Otherwise, create a role or edit an existing role to add the privileges. Click System Setup and then Roles.
- d. Click Add Role and select an existing role or complete the Description field. Note: You must be an InTempConnect administrator or a user with Manage Users and Roles privileges to add a Role.
- e. Select privileges from the Available Privileges list on the left and click the right arrow to move them to the Assigned Privileges list on the right as shown in this example.



Gateway Privilege	Description
Create Shipments	Set up shipments of loggers using the gateway.
Download Now and Continue	Download data from the logger with a gateway immediately and t hen continue logging.
Download Now and Restart	Download data from the logger with a gateway immediately and then restart the logger.
Download Now and Stop	Download data from the logger with a gateway immediately and then stop logging.
Edit/Delete Shipments	Change or delete planned shipments of loggers using the gatewa y.
Manage Logger/ Gateway Profiles	Set up or edit a gateway profile in InTempConnect.
Manage Gateways	Monitor active gateways in InTempConnect and configure loggers with the gateway.
Gateway Administrator	Set up and configure a gateway with the InTemp app.

Select any other privileges you want the user to have (privileges for the InTempConnect website are noted with

a cloud icon and privileges for the InTemp app are noted with a mobile device icon)

f. Select a user for this role and click Save. Or, if you need to add a user, click Save and then click System Setup > Users. Click Add User and enter the email address and first and last name of the user. Select the role with the gateway privileges for the user and click Save. Tip: You can assign these roles to the same user or different users.

2. Set up a gateway profile.

- a. In the InTempConnect website, click System Setup and then Gateway Profiles.
- b. Click Add Gateway Profile.
- c. Type a name for the gateway, up to 30 characters.
- d. Select the logger family that you will use with the gateway; you can select more than one.
- e. Select what you want the gateway to do with each logger when connected:
- Download and Restart
- · Download and Continue
- Download and Stop

Important: Make sure you select either Download and Restart (CX400, CX450, CX503, CX603, and CX703 loggers) or Download and Continue if you want all loggers to continue logging once the gateway connects to them. Otherwise, if you select Download and Stop, all logging stops once the gateway connects to the loggers and you will need to restart them with the InTemp app or using the gateway with InTempConnect. In addition, Download and Restart is not available for CX502, CX602, and CX702 loggers. These loggers stop logging upon download if you select this option.

- f. Choose how frequently the gateway connects to and downloads data from the logger: every 12 hours, day, week, or month.
- g. Select additional connection controls.
- Immediately connect to any <logger> not seen by this gateway.* The gateway automatically connects to a new logger when it first recognizes it. If this option is disabled, the logger continues logging, regardless of what you select for the Download option in step e. If you enable this option, the gateway follows the download setting you select. This means if you select Download and Restart or Download and Stop in step e, the logger restarts or stops upon the first gateway connection.

*Note: Not ideal for storage applications.

- Immediately connect to and download any <logger> with a new sensor alarm. The gateway connects to and downloads data from any logger (as applicable) any time a new alarm trips on the logger.
- Immediately connect to any <CX400 or CX450 logger> with a new low battery. The gateway connects and downloads data from a CX400 or CX450 logger any time a new low battery alarm trips on the logger.
- Immediately connect to and download any <loggers> that have been stopped and are no longer recording data. The gateway connects and downloads data from a CX500, CX600, or CX700 logger when it stops logging instead of waiting for the next scheduled connection. This option is not available for CX400 loggers.
- Reverse Logistics Enable reverse logistics for shipment loggers after <time>. Select a time to activate this feature. When you select a time from the dropdown, you turn this feature on and tell the gateway to forget all logger serial numbers that have left the range of the gateway after the selected time. If a logger leaves the range of the gateway but returns before the specified time elapses, the gateway treats it as a previously seen logger and does not perform the download. For example, if the logger is set to purge serial numbers after 4 hours and leaves the range of the Gateway but returns 3.5 hours later, the Gateway does nothing with that

logger because it returned before the Gateway could purge that serial number from its memory. This allows you to monitor a shipment that goes from point A to point B and back to point B again, or to monitor a shipment in which point A is the origin and the destination.

Note: Use this option only with gateways that you use exclusively for shipment or logistics; do not use it for gateways you use for product storage monitoring.

- h. Click Save. The new profile is added to the list of gateway profiles.
- 3. Download the InTemp app and log in.
 - a. Download the InTemp app to a phone or tablet if you have not already done so.
 - b. Open the app and enable Bluetooth in the device settings if prompted.
 - c. Log in with your InTempConnect user credentials.
- 4. Set up and start loggers.

Configure and start the loggers that the gateway will be downloading data from (requires privileges). You must configure all loggers with the same account used to configure the gateway. Refer to the logger documentation or go to www.intempconnect.com/help for details on starting loggers. You can also set up the gateway to configure loggers. See Configuring Loggers with the Gateway in this manual.

- 5. Power up the gateway.
 - a. Insert the appropriate plug for your region into the AC adapter. Connect the AC adapter to the gateway and plug it in.



- b. Plug in an Ethernet cable if the gateway is using Ethernet settings.
- c. Wait a couple of minutes for it to completely power up before continuing.

The LED is yellow-amber while the gateway powers up and changes to a deep green once it is ready to set up.

6. Configure gateway network settings.

Note: Ports 123 and 443 must be open for the gateway to work properly.

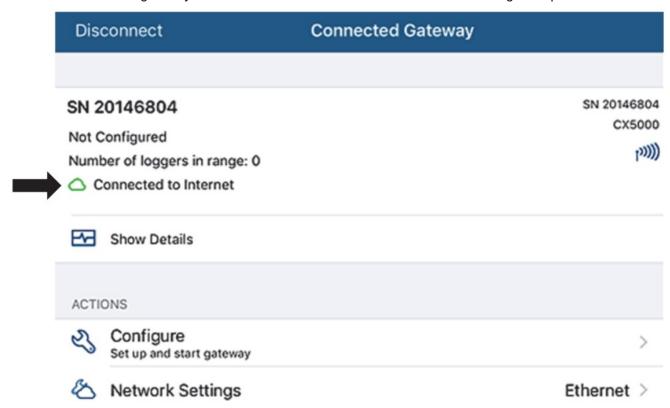
- a. In the InTemp app, tap the Devices icon. (Don't see Gateways? You must have Gateway Administrator privileges.)
- b. The gateway appears in the list as in the following example of a CX5000 tile and is identified by its serial number. The serial number is located on the outside of the box or on the back of the gateway. Tap anywhere in the tile to access gateway settings.



If the gateway does not appear, make sure it is powered up and within range of your phone or tablet or press the button on the gateway.

c. If the gateway is using Ethernet with DHCP, the network settings are automatically configured. A green cloud

icon indicates that the gateway is connected to the Internet as shown in the following example.

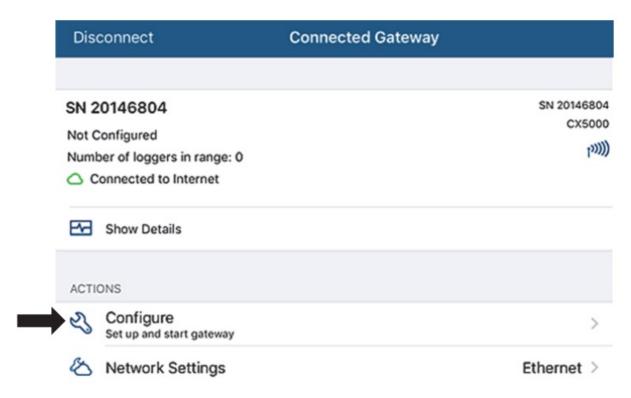


To set up Ethernet for static IP addresses or Wi-Fi, tap Network Settings and tap Ethernet or Wi-Fi.

d. For Ethernet using static IP addresses: Disable DHCP. Tap IP Address, Subnet Mask, or Router to edit the addresses (consult your Network Administrator). Tap Add DNS Server and enter an address. Repeat if necessary (the app can store up to three DNS server addresses). Tap Save. For Wi-Fi: Select Use Current Wi-Fi Network to use your phone or tablet's existing Wi-Fi SSID and then type your password (the password is not copied from your mobile device). (Tap Reset Wi-Fi on Gateway to remove an existing Wi-Fi configuration and enter a different network name and password.) Tap Save.

Note: If the InTemp app disconnects while saving network settings, reconnect and enter the network settings again.

- e. The gateway automatically tests the network connection after saving the settings. You can cancel thetest if necessary. If the test is not successful, make sure
- all your settings are entered correctly and saved.
- 7. Configure the gateway.
 - a. In the InTemp app, tap the Devices icon and then tap Gateways at the top of the screen.
 - b. Tap the gateway tile to connect to it.
 - c. Tap Configure.



- d. Select a gateway profile; swipe left or right if there are multiple profiles. (Don't see a profile? Set one up in the InTempConnect website as described in step 2. Log out of the InTemp app and back in to see any new configurations.)
- e. Type a name for the gateway. The gateway serial number is the name if you don't enter one.
- f. Tap Start. The status of the gateway changes to Running in the app.

Once a gateway has contacted InTempConnect for the first time, a user is created for the gateway in your InTempConnect account. The user name is listed as CX5000-<gateway serial number> and the role assigned to this gateway user is the same role as the user who set up the gateway. Click System Setup and then Users to see the gateway added to the list of users in your account.

Notes:

- If you have been using a gateway prior to December 2018, a gateway user is automatically added for your gateway.
- CX5000/CX5001 gateway users must have gateway privileges. If you edit the CX5000/CX5001 gateway user role, make sure that role keeps gateway privileges.

If you disable a CX5000/CX5001 gateway user, the gateway no longer downloads loggers or connects to InTempConnect. After you start up a gateway, it connects to loggers within range and downloads data from them based on the settings in the profile. Data is uploaded to the InTempConnect website, where you can configure loggers, create shipments, search logger configurations, run reports, or schedule regular delivery of logged data and other logger information using email (see www.intempconnect.com/help). **Note** for CX400 loggers only:

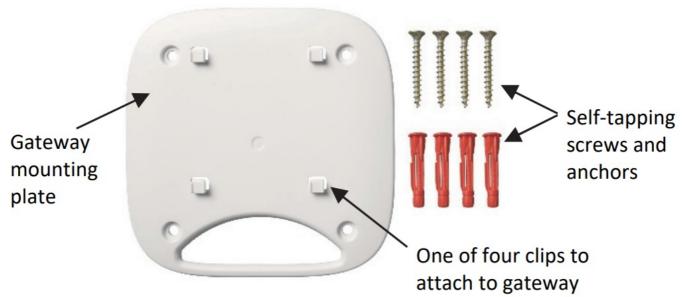
If the gateway is downloading data from a CX400 logger in an alarm state, the gateway will download data from the logger every hour until the alarm is cleared.

A signal is sent to InTempConnect every 10 minutes to make sure the gateway is still active (see Monitoring the Gateway with InTempConnect). The gateway LED is green during normal operation. See Gateway LEDs for more information.

Deployment and Mounting Guidelines

Follow these guidelines when selecting a location for the gateway:

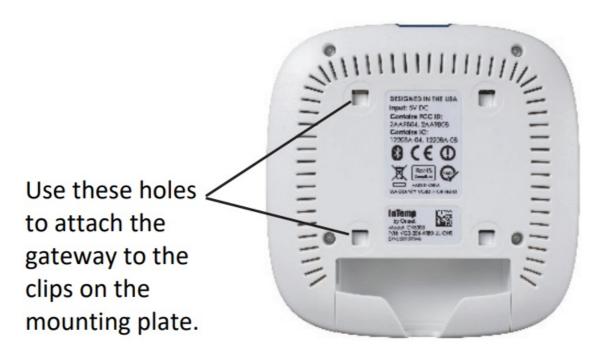
- The gateway requires AC power and an Internet connection. Select a location for the gateway that is near an AC outlet and an Ethernet port (if you are using Ethernet) or within range of your Wi-Fi router (if you are using Wi-Fi).
- The range for successful wireless communication between the gateway and the loggers is approximately 30.5 m (100 ft) with full line-of-sight. If there are obstacles between the gateway and the loggers, such as walls or metal objects, the connection may be intermittent and the range between loggers and the gateway is diminished.
- Use the enclosed mounting kit to mount the gateway to a flat surface. Use the self-tapping screws and anchors to affix the gateway mounting plate to a wall or ceiling.



If you are mounting the gateway on a wooden surface, use both the gateway mounting plate and the mounting bracket shown below. Place the gateway mounting plate over the mounting bracket so the holes are aligned. Use the machine screws to affix it to the surface (you may need to drill pilot holes in the surface first).



Once the gateway mounting plate is in place on the wall or other flat surface, use the four holes on the back of the gateway to attach it to the four clips on the mounting plate.



Connecting to the Gateway

To connect to the gateway with your phone or tablet:

- 1. In the InTemp app, tap the Devices icon and tap Gateways.
- 2. Tap the gateway tile in the list to connect to it.

If the gateway does not appear in the list or if it is having trouble connecting, follow these tips:

- Make sure you have Gateway Administrator privileges in the InTempConnect website as described on page 1.
- Press the button on the gateway and then check the list again. If the gateway does not show up in the list after 30 seconds, press the button again.
- Make sure the gateway is within range of your phone or tablet when connecting to it. If your mobile device can connect to the gateway intermittently or loses its connection, move closer to the gateway, within sight if possible. Check the gateway signal strength icon in the app to make sure there is a strong signal between the phone and the gateway. The more blue bars, the stronger the signal.
- Change the orientation of your phone or tablet to ensure the antenna in your device is pointed toward the gateway (refer to your device's manual for the antenna location). Obstacles between the antenna in the device and the gateway may result in intermittent connections. Once your phone or tablet is connected to the gateway, you can check how many loggers are in range or click Show Details to see the last time the gateway connected to a logger and to the InTempConnect website. You can also select one of the following actions:
- Configure. Select a profile for the gateway. You can create a new gateway profile in the InTempConnect website under System Setup > Gateway Profiles.
- · Network Settings. Change the Ethernet or Wi-Fi settings.
- Stop Gateway. Stop a running gateway. Loggers are no longer downloaded until you configure or start the gateway again.
- Start Gateway. Start a gateway with the current configuration settings.

Monitoring the Gateway with InTempConnect

To monitor an active gateway in the InTempConnect website, select Gateways and then Gateway Configurations. All current and previous gateway configurations are listed. Check the current configuration in the list for the status, last upload date/time, and last contact with InTempConnect.

The gateway sends a signal every 10 minutes to InTempConnect to make sure the gateway is still active. The status for the current gateway configuration is listed in InTempConnect. When a gateway is unable to send a signal (e.g., there is an interruption in Internet service), it is listed as missing in InTempConnect, the LED on the gateway is red (CX5000 only), and an email indicating the gateway is missing is sent to the address on file in InTempConnect after an hour. To change the default notification settings (including whether to send an email or text and the amount of time to wait before sending a notification) or to create an additional notification, select System Setup and then Notifications in InTempConnect. The gateway continues downloading data from loggers even if it is not able to connect to InTempConnect. The data is stored temporarily in the gateway and uploaded the next time it is able to connect to InTempConnect.

The following is a list of all status messages that may appear for the gateway:

- Gateway OK. The gateway is functioning without error.
- Missing. The gateway has not sent a signal to InTempConnect.
- Invalid gateway date, check network connection. The gateway clock time is invalid, i.e., the gateway cannot set the clock time because there is no Internet connection.
- Logger error, relaunch logger(s) with InTemp App. The logger internal file is corrupt and the gateway cannot retrieve data. Relaunch the logger with the InTemp app.
- Unable to update data to cloud. The gateway cannot upload logger data to InTempConnect.

Gateway LEDs

The following two tables describe the LED behaviors of the CX5000 and the CX5001.

CX5000 LED Behavior

LED Behavior	Description
Yellow/amber	The gateway is powering up. The LED is yellow-green when the gate way is first plugged in and then changes to a deep green once it is rea dy to set up.
Blinking green, 1 blink per second	The gateway has been initialized, but it is not connected to a logger.
Blinking green, 1 blink per second	The gateway is connected to a logger.
Solid green	The gateway is currently connected to a logger.
Blinking red	The gateway is configured but has been unable to connect to the Internet for at least an hour.
Solid red	The gateway is currently connected to a logger but has been unable t o connect to the Internet for at least an hour.
Grey/Black	The gateway is off.
Yellow/amber	The gateway is powering up.
Yellow/amber, slow blink every 1-2 sec onds	The gateway is booting.
Yellow/amber, fast blink, 2 blinks per s econd	The gateway has lost network connectivity
Solid green	The gateway is currently connected to a logger.

Pausing, Stopping, and Resetting a Gateway

Follow these instructions to pause a running gateway (CX5000 only), stop a gateway completely, or reset a gateway.

- CX5000 only: Press the button on the gateway for 1 second to pause it. The gateway finishes downloading data from a logger in process, but makes no other connections to loggers for a one minute. After one minute, the gateway resumes connections to loggers at the normal schedule.
- To stop a running gateway, connect to the gateway with the InTemp app and select Stop Gateway. The gateway no longer connects to and downloads data from loggers until you start it again or reconfigure it.
- If you need to reset a gateway, press the button on the gateway for at least 10 seconds. Anyone with Gateway Administrator privileges can then connect to the gateway with the InTemp app and reconfigure it. Note: It may take up to 30 seconds for the gateway to appear unlocked in the InTemp app.

Grouping Gateways with InTempConnect

If you have more than one gateway using the same profile, you can combine those gateways into a single group. This allows any gateway in that group to configure or download a logger as defined by the shared profile settings. Groups are beneficial because if one gateway has a poor connection to a logger, another gateway in the group with a better connection can download data from the logger instead, thereby expanding the coverage area and reducing the risk of multiple gateways incorrectly affecting a logger.

Note: If loggers are in range of more than one gateway, group those gateways to ensure the system works correctly. If there is any risk of the Bluetooth range between devices overlapping within a facility (including gateways in different rooms, areas, or floors), group the gateways to reduce the risk of connection issues. To create a gateway group:

- 1. In InTempConnect, click Gateways and then Groups.
- 2. Click Add Group.
- 3. Select a gateway profile.
- 4. Select a location (if applicable).
- 5. Under Description, type a name for the group.
- 6. Select the gateways you want to assign to this group from the Available Gateways list and use the right arrow to move them to the Assigned Gateways list.
- 7. Click Save. See www.intempconnect.com/help for details on groups.

Configuring Loggers with a Gateway

You can use a gateway to configure in-range loggers automatically instead of using the InTemp app. To configure loggers with a gateway:

- 1. In InTempConnect, select Logger Controls and then Configure Logger.
- 2. Click Create Logger Configuration.
- 3. Type the serial number for the logger and then click Find Logger. Note: The selected logger cannot already be part of a scheduled configuration or shipment.
- 4. Enter a logger name.
- 5. Select a logger profile.
- 6. Complete the trip information fields (if applicable).
- 7. Click Save if you want to save this logger configuration, but are not ready to release it (i.e., not ready for the gateway to configure the logger). Click Save and Release if you are ready for the gateway to configure the

logger.

Alternatively, you can use a Microsoft® Excel® spreadsheet as a template for setting up multiple logger configurations at once.

To import logger configurations with a template:

- 1. Click Logger Controls and then Configure Logger.
- 2. Click Import Logger Configurations.
- to create a file using the template.
- 4. Complete all the fields for each logger to be configured by the gateway. The template includes columns for any trip information fields you have created.

Note: The selected logger cannot already be part of a scheduled configuration or shipment.

- 5. Save the file.
- 6. Click Choose to select the file. Click to remove that file and select another.
- 7. Click Upload.
- 8. Select the Release on Import checkbox to have the gateway configure the loggers in the file as soon as the import finishes.
- 9. Click Start Import. If you did not select the Release on Import checkbox, the loggers are added to the list with a Planned status.

Any loggers that are not immediately released have a Planned status. To release planned logger configurations:

- 1. Click Logger Controls and then Configure Logger.
- 2. To release one logger at a time, click the Release icon at the end of the row in the Logger Configurations table for the logger you want the gateway to configure.

To release multiple loggers at a time, select the check box next to each logger in the Logger Configurations table (or select the checkbox next to the Serial Number column heading to select all the

above the table for the gateway to configure all the selected loggers. loggers). Click

Note: You can also set up shipments whose loggers are configured and downloaded by specified gateways at their origin and destination points. Loggers that are part of a shipment cannot be configured separately. See www.intempconnect.com/help for other details on configuring loggers with a gateway or as part of shipments.

Downloading Loggers with a Gateway

You can use a gateway to download data from in-range loggers on demand instead of waiting for the regular download schedule defined by the gateway profile or going onsite to download data manually with the mobile app. Note: You must have the required privileges to download data from loggers with a gateway. You cannot download data from loggers on demand with a gateway if they are already part of a shipment.

To download data from loggers with a gateway:

- 1. In InTempConnect, click Logger Controls and then Download Loggers.
- 2. Select the gateway you want to use to download data from loggers. This displays loggers within range of that gateway.
- 3. Select the loggers whose data you want the gateway to download. Use the arrows next to a column heading to change the sort order of the column to help you locate the loggers you want to include.

- 4. Choose a download option for all loggers you have selected:
 - Download & Continue. The logger continues logging once the download is complete.
 - Download & Restart (CX400, CX450 CX503, CX603, and CX703 models only). The logger starts a new configuration using the same profile once the download is complete. Note that if the logger profile is set up to start with a button push, push the button on the logger to restart logging.
 - Download & Stop. The logger stops logging once the download is complete.
- 5. Click Download. The status of the download is displayed under Download Requests, where you can also cancel the download if necessary. The download occurs the next time the gateway sends a signal to InTempConnect (every 10 minutes). Once the download is complete, the Configurations table in InTempConnect is updated with the latest logger configuration information. Any applicable notifications are sent once the download is complete.

Setting up the Gateway at a Different Site

Follow these instructions to configure/start the gateway for use at a different site or to set up network settings for the gateway at a different location than the current site (for example, you are an IT administrator who is setting up a gateway to be used at a different office). Note that you must have an InTempConnect user account with Gateway Administrator privileges and the InTemp app to continue.

Note: If the gateway is to be deployed at a location that supports Ethernet with DHCP and you do not need to set up network settings in advance, then you can follow the steps in Setting up the Gateway on page 1 instead.

- 1. Power up the gateway. Insert the correct plug for your region into the AC adapter. Connect the AC adapter to the gateway and plug it in. Plug in an Ethernet cable to use Ethernet at your current location. Wait a couple of minutes for it to completely power up before continuing.
- 2. If you are not configuring the gateway and are only setting up network settings for the different site: Go to step
 - 4. If you are configuring the gateway and have Ethernet with DHCP at your current location: Go to step 3. If you will be configuring the gateway and using Ethernet with static IP addresses or Wi-Fi at your current location: Follow these steps to set up temporary network settings:
 - a. Tap the Devices icon and tap Gateways at the top of the screen. Find the gateway in the list and tap anywhere in the row to open it.
 - b. Tap Network Settings and tap Ethernet of Wi-Fi.
 - c. To use Ethernet with static IP addresses at the current location: Disable DHCP. Tap IP Address, Subnet Mask, or Router to edit the addresses. Tap Add DNS Server and enter an address. Repeat if necessary (the app can store
 - up to three DNS server addresses). Tap Save.
 - d. To use Wi-Fi at the current location: Select Use Current Wi-Fi Network to use your phone or tablet's existing WiFi SSID and then type your password. Tap Save.
- 3. Configure the gateway.
 - a. Connect to the gateway (tap the Devices icon and then tap Gateways at the top of the screen and tap the gateway to connect to it).
 - b. Tap Configure.
 - c. Select a gateway profile; swipe left or right if there are multiple profiles. (Don't see a profile? Ask your InTempConnect administrator to set one up as described in the first section. Log out of the InTemp app and back in to see any new profiles.)
 - d. Type a name for the gateway. The gateway serial number is the name if you don't enter one.
 - e. Tap Start. The status of the gateway should change to Running in the app.

- 4. Set up network settings for the location where the gateway will be deployed.
 - a. Connect to the gateway (tap the Devices icon and then tap Gateways at the top of the screen and tap the gateway to connect to it).
 - b. Tap Network Settings.
 - c. To use Ethernet with DHCP at the remote site: Tap Ethernet, enable DHCP, and tap Save.

To use Ethernet with static IP addresses at the remote site: Tap Ethernet and disable DHCP. Tap IP Address, Subnet Mask, or Router to edit the addresses for the location where the gateway will be deployed. Tap Add DNS Server and enter an address. Repeat if necessary (the app can store up to three DNS server addresses). Tap Save. To use Wi-Fi at the remote site: Tap Reset Wi-Fi on Gateway to remove any existing Wi-Fi configuration. Type the SSID and password for the location where the gateway will be deployed and tap Save.

Note: If a Wi-Fi password is changed at the site after you set up it the Wi-Fi settings will need to be

Note: If a Wi-Fi password is changed at the site after you set up it, the Wi-Fi settings will need to be reconfigured. This will require a phone or tablet with the InTemp app.

- d. Note that you will not be able to test the network connection for a different location. Pause any network test that is attempted.
- 5. The gateway is ready to use at the other site. Remove the power and package it back up. To start using it at the site, plug in the gateway in and plug in the Ethernet cable if necessary.

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Documents / Resources



ONSET CX5000 InTemp Gateway [pdf] Instruction Manual CX5000 InTemp Gateway, CX5000, InTemp Gateway, Gateway

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