

# Remote Monitoring Technology

For Water Treatment Equipment





## Remote Monitoring

Enables users to oversee water quality and usage from anywhere, ensuring peace of mind even when they're away. Total Connect also boasts the capability of connecting with multiple monitoring devices for expanded coverage and enhanced functionality.



## Leak Detection

Identifies leaks and irregular water usage in real-time, preventing costly water damage.



## Cost Savings

Prompts swift action on leaks, minimizing water waste and repair costs.



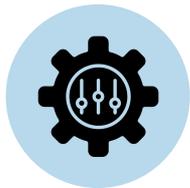
## Property Protection

Guards against water-related risks, extending the lifespan of plumbing systems



## **Convenience**

Facilitates easy management of water systems through a mobile app or web portal.



## **Customization**

Tailors alerts to user preferences, keeping them informed about their water system's status.



## **Peace of Mind**

Total Connect offers comprehensive water monitoring and protection, with alerts for unusual water usage and access to historical data. Users with multiple properties can access all data in one account, and real-time alerts enable prompt action to prevent costly issues. and averting structural damage.



# OUR DEVICES

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## Hayabusa Standard & PRO Models

Introducing our cutting-edge device designed to seamlessly connect Clack WS1 WiFi-enabled boards to the internet, revolutionizing the way you monitor and control your water treatment system. Our device offers two versatile connectivity options, allowing you to choose the one that best suits your needs.



## Brine Tank Salt Sensor

The Peregrine brine tank salt sensor uses real-time technology to determine salt levels. The brine tank salt sensor features a rugged design that can withstand harsh environments and operate continuously using either an 18650 Lithium Ion battery or a water resistant USB C power supply.

## Atmospheric Tank Sensor

This advanced design is equipped with a narrow field of view sensor and zone management technology enabling water professionals to measure volume inside atmospheric tanks regardless of fluid type. Our design is CANBUS and LoRa ready for future expansions.



## Pressure Sensor

Introducing our 1/4" NPT Male Pressure Sensor, the perfect solution for measuring pressure differential across nested Clack valves. This pressure sensor provides accurate and reliable measurements, making it an essential component in any water treatment system.

With its high sensitivity and accuracy, this pressure sensor is perfect for real-time pressure readings, allowing you to detect any changes in pressure that could impact your water treatment system.



# TDS Detection with 1/4" NPT Male Slip

The Peregrine TDS sensor with a 1/4" slip fitting is a high-precision device that measures the total dissolved solids (TDS) in water with exceptional accuracy and reliability. It is designed for use in a wide range of applications, including water treatment, aquariums, and hydroponics.

You can easily monitor the output of RO TDS levels, ensuring optimal water quality and reducing the risk of equipment damage. It is an essential tool for deployed residential and business applications for individuals who rely on accurate and reliable TDS measurement in their water systems.



## Leak Detector

The rugged Peregrine Leak Detect Puck is designed to identify and alert users to potential leaks or spills throughout the home and workplace.

Our device leverages a low energy consuming technology that awakes when liquids are detected alerting the user of potential damage. Our 18650 powered device intelligently wakes throughout the day to transmit device and battery health to ensure you're aware of any changes.



# Luminor

Peregrine is proud to partner with LUMINOR to present a comprehensive whole-home water UV treatment solution. This device incorporates a genuine 254nm discrete UV monitor that enables continuous remote monitoring.

Utilizing Teflon technology to minimize fouling, these sensors facilitate the addition of a solenoid shut-off valve and a 4-20mA output, allowing remote monitoring and data logging perfect for your application.



## Cradlepoint S700

The Cradlepoint S700 Series is a versatile endpoint solution designed to deliver secure and reliable connectivity for the commercial water professional.

With its robust features and advanced capabilities, the S700 Series ensures seamless network access even in challenging environments. Engineered for high-performance, scalability, and ease of deployment, this series empowers organizations to stay connected and productive in today's dynamic business landscape.



# Inside look into the Total Connect app





# TOTAL CONNECT PROCESS

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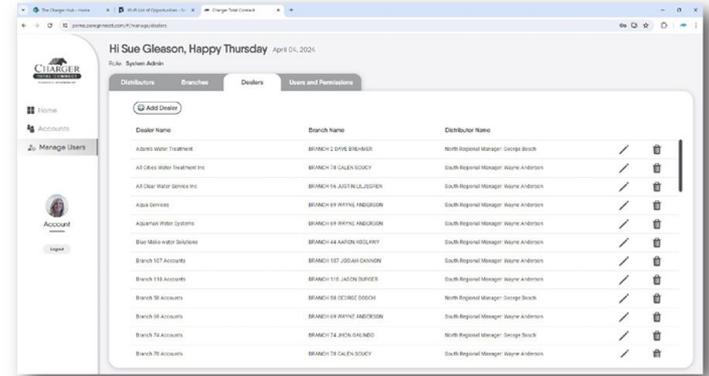
1

Customer will receive an email with a link to take an online class. Once the class is completed, customers download the certificate and send to Charger.



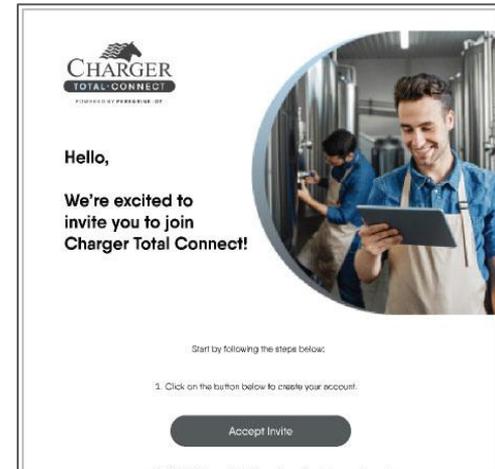
2

Charger sets up Water Professional within Total Connect.



3

Water Professional receives welcome email.





# PROVISIONING A NEW DEVICE

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## For Professionals

1. Apple App
2. Android App
3. Web Browser



Total Connect Pro

## For End Users

1. Apple App
2. Android App



Total Connect



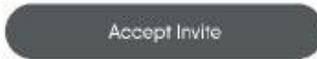
Hello,

We're excited to invite you to join Charger Total Connect!



Start by following the steps below:

1. Click on the button below to create your account.



2. Get the Charger Total Connect app from the app store and sign in with the details you created in step 1.



For your account's security, please note that this link will only be valid for

Once the online course is completed, you will receive a welcome email similar to this:

**THIS EMAIL IS ONLY VALID FOR 5 DAYS.**

1

Click on the first button that says 'Accept Invite' and create your account. (You will need this information in step 4; write down your password for later use)

2

After your professional account is created, go back to this original welcome email, and select the second button 'Download on the App Store' to download the app.

3

After the professional app is installed, click to open to the login page.

**You'll need to access this same email twice during the process:** Once to set up the account and then again to get the app in the app store. the pro app cannot be accessed without this email.

# PHASE 2



## **BEFORE YOU BEGIN**

Make sure the **Charger Total Connect Pro** app is loaded onto your phone and that you are connected to your customer's wi-fi.

Also, location services needs to be enabled for the app to function correctly.

# FIRST on your mobile device:

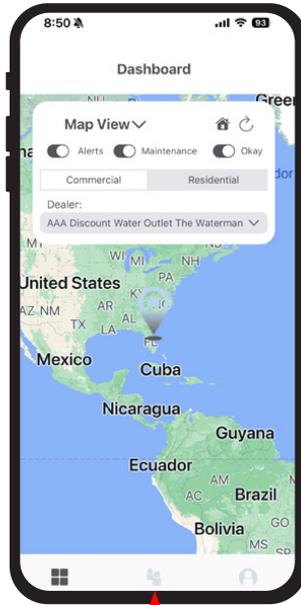
1A



Open the Total Connect Pro app and log in.

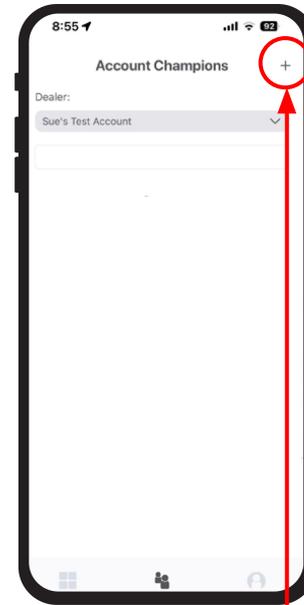
If you haven't installed it, go back to page 1

2A



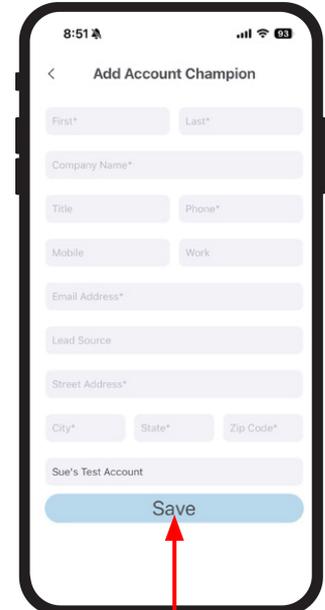
Once logged in, on the next window, press the middle icon - Account Champion

3A



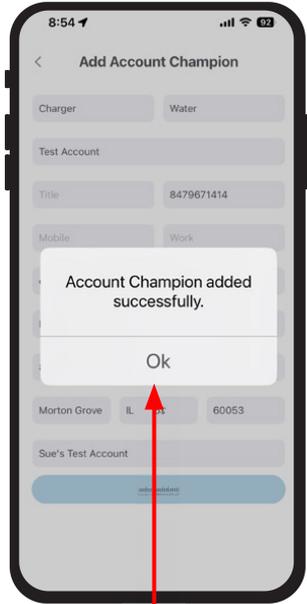
Next, you will set up your customers' account by clicking the + sign in the upper right corner.

4A



Fill in all necessary information and click 'Save'.

5A



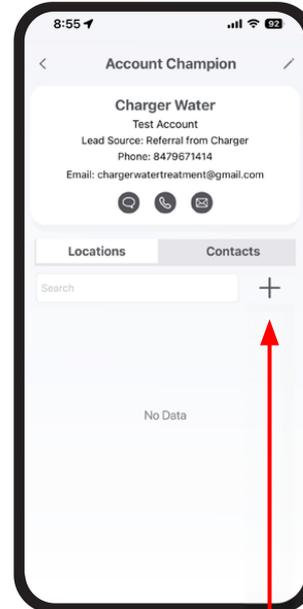
Once you've completed the form correctly, you will receive this message.

6A



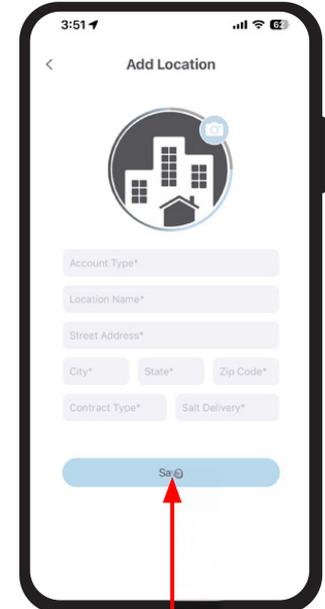
Next, you will select the Account Champion/End User that you just created.

7A



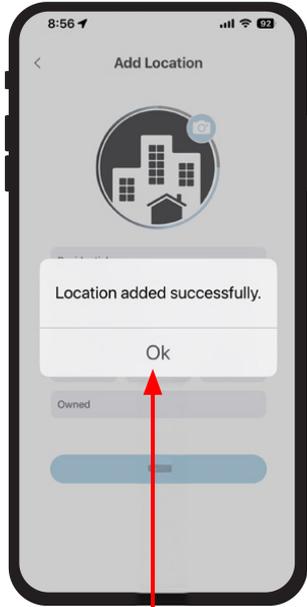
On the next screen, again click the + sign.

8A



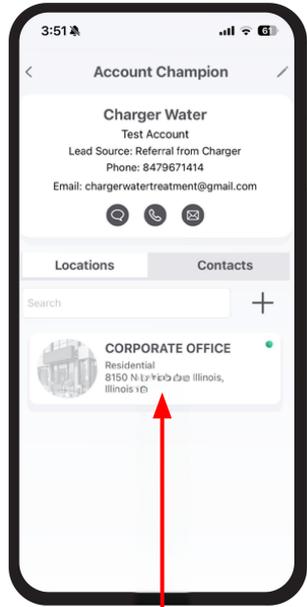
Complete the location information of the Account Champion/End User on this form and select 'Save'.

9A



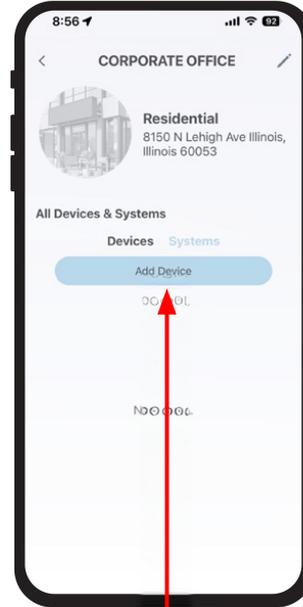
When the location information is added successfully, you will receive this message.

10A



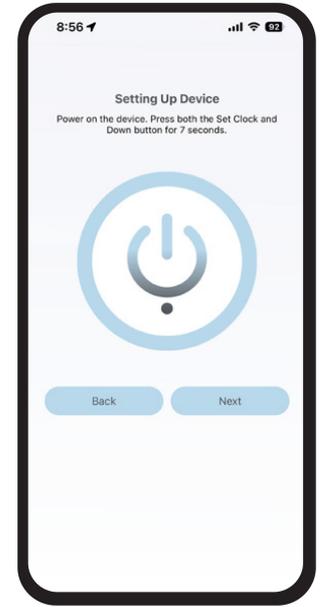
Select the location that you just created.

11A



On the next screen, click 'Add Device'

12A



When this screen appears, STOP and go to the valve.

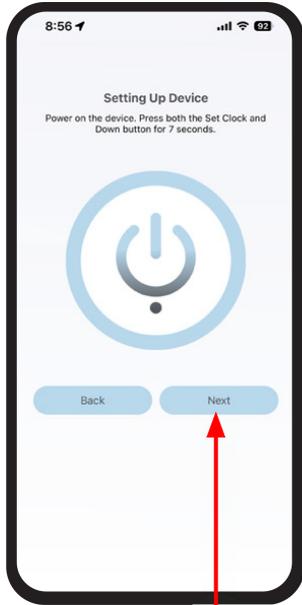
## SECOND, on your valve



Press and hold the **CLOCK** button and **DOWN** button simultaneously for 10 seconds.

# THIRD, back on your mobile device

## 12A (AGAIN)



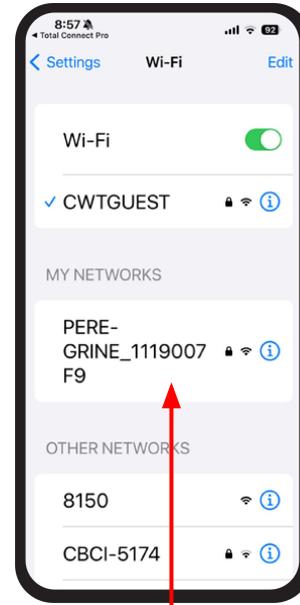
After holding the valve buttons down, come back to this screen and press 'Next'.

## 13A



Click 'Configure Connection'.

## 14A

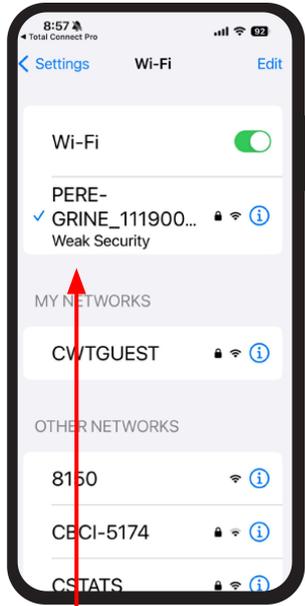


Once in Settings, select the Peregrine Network

## COMMON ISSUES

If the Peregrine network does not appear, try CLOCK and DOWN ARROW on the valve again for a longer amount of time. You might also verify that the daughter board is fully attached to the circuit board.

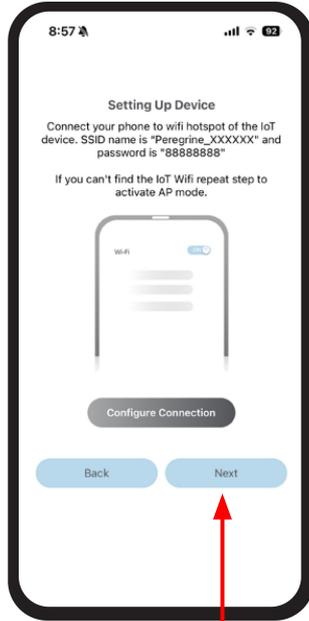
15A



Once selected, it will shift to the top.

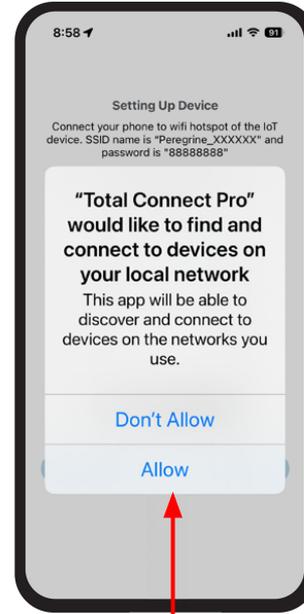
\*\*Don't worry that it says 'Weak Security' and then switches to 'No Internet Connection'.

16A



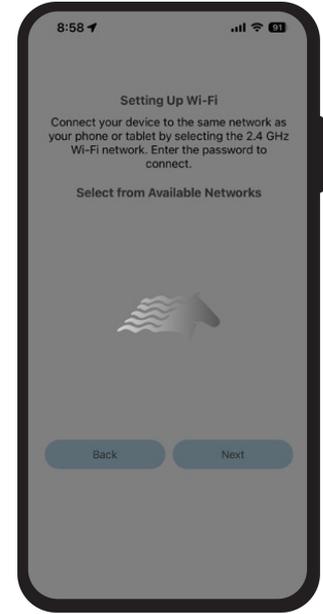
Go back out to this screen and click 'Next'.

17A



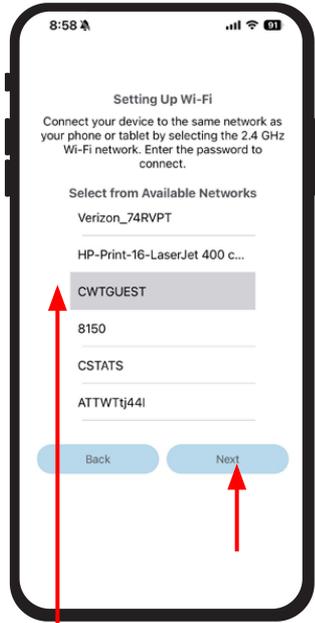
When this screen appears, YOU MUST SELECT 'Allow' in order for this system to function.

18A



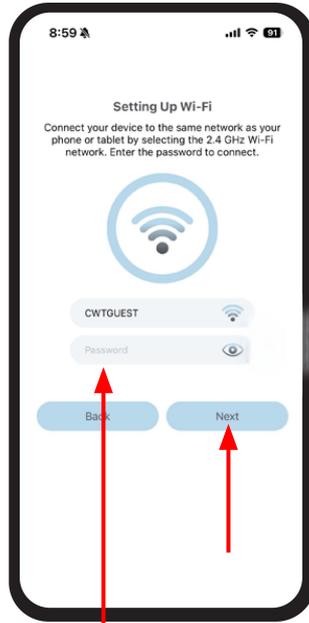
Reminder: when the horse is showing, the system is working. Please be patient :)

19A



Select the wifi of the place where you will be connecting. Then press 'Next'.

20A



Add the password in the field that says 'Password'. Then press 'Next'.

21A



Enter a name for your unit. Then press 'Next'.

22A



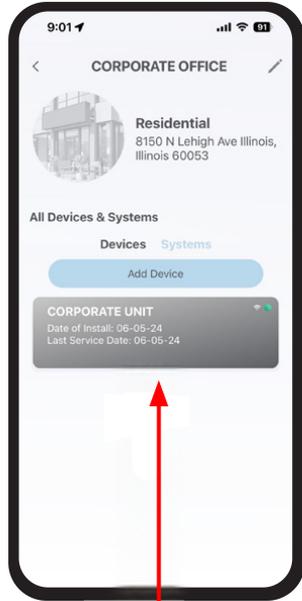
This next screen shows that the system is working...

23A



Setup is Complete!  
Press 'Finish'.

24A



Select your unit (in  
the gray box) to begin  
assessing your unit.

## REMINDER ABOUT SIGNAL STRENGTH:

Zero is the highest signal strength. The higher the number in the upper right corner of the valve screen, the lower the signal strength on a scale of 0-100.



To double check that all is good, on your valve, you should see 'WIFI' and the wifi that you are connected to.

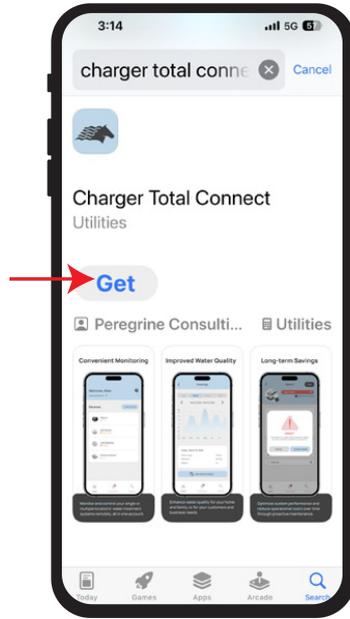
# How To Install the End-User App and Create an Account

1E



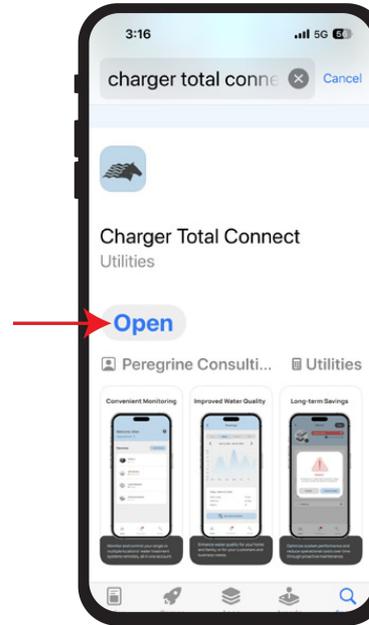
End user should open the App Store.

2E



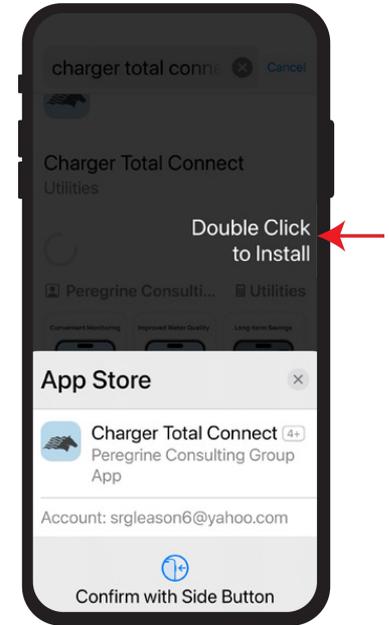
Search Charger Total Connect. When found, select 'Get'.

3E



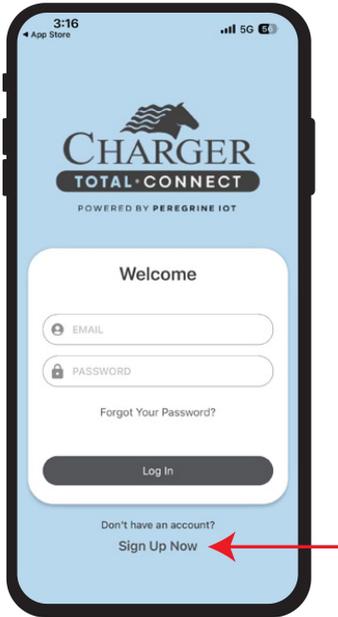
Once downloaded, Select 'Open'.

4E



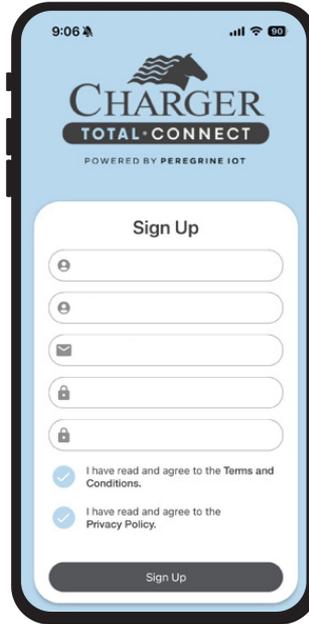
Double Click on the side button to install the app.

5E



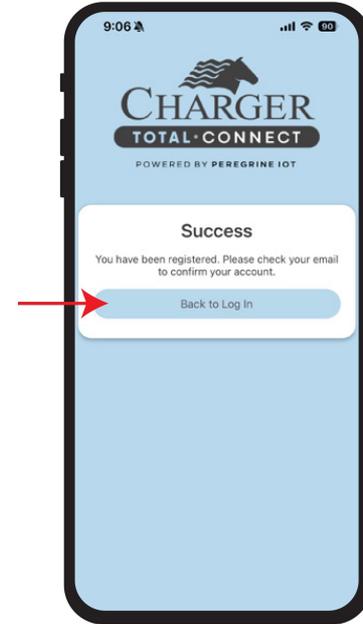
End user will now be directed to the Welcome page where they can click 'Sign Up Now' to create an account.

6E



End user must complete the information in this form.

7E



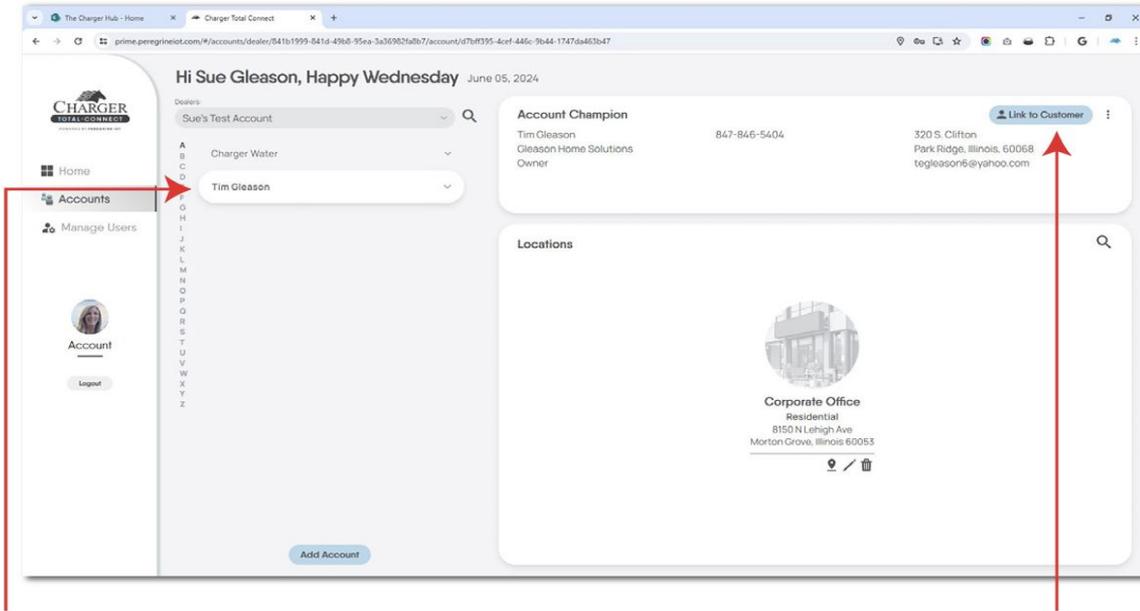
End user's account is now registered. End user will receive an email that must be verified in order to continue. After verification, click "Back to Log in'.



# CUSTOMER SETUP

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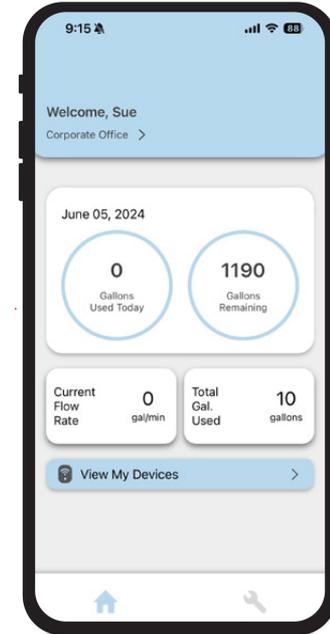
8E



To link accounts: log in, navigate to the account to be linked, and select “Link to Customer.”

In the drop down, select the customer’s email.

9E



When account linking is complete (step 8E), the Account Champion/End User will need to log back into their account to see this screen.

# Inside look into the end user app



# Which Total Connect Service Plan is Right for You?

## CZ VALVE SERVICE PLAN

Choose one, two, or all of the options below for a bundled price!

- Clack CZ Valve
- Brine Tank Salt Sensor
- Leak Detector
- Atmospheric tank
- TDS Detection
- Pressure Sensor
- Luminor UV
- Hayabusa

CWWIFI-SERVICE CZ VALVE PLAN.1888299

## NO VALVE SERVICE PLAN

Choose one, two, or all of the options below for individual pricing!

- Brine Tank Salt Sensor
- Leak Detector
- Atmospheric tank
- TDS Detection
- Pressure Sensor
- Luminor UV

CWWIFI-SERVICE NO VALVE PLAN 1888684



# Tech Support Emails

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