
Chesterton Connect™

Setup Guide

Sensor, Gateway and Cloud Setup



TABLE OF CONTENTS

<i>About the Chesterton Connect™</i>	2
<i>App</i>	2
<i>Cloud</i>	2
<i>Device List</i>	2
<i>Power-up Cap installation</i>	3
<i>Login Into cloud Account Website</i>	4
<i>Connecting App to Cloud</i>	5
<i>Creating a New Cloud Account User</i>	6
<i>Registering Sensor to the Mobile App</i>	7
<i>Registering Sensor to the Cloud</i>	8
<i>Gateway Installation</i>	9-10
<i>Gateway Registration</i>	9-10
<i>Setting Alerts and Notifications</i>	11
<i>Adding Device Properties in the Cloud</i>	12
<i>Battery Replacement</i>	13
<i>Versions and Updates</i>	14-15

Chesterton Connect™ App

The Chesterton Connect mobile app is available as a free download; look for this symbol:



Chesterton Connect™ Cloud

The Chesterton Connect Cloud is a web dashboard (Connect.Chesterton.com) that can be accessed through a computer with internet and can run in the following standard browsers:

- ◆ Google Chrome
- ◆ Mozilla Firefox
- ◆ Microsoft Edge
- ◆ Apple Safari

Devices List:

1. Sensor
2. Power-up Cap
3. Gateway
4. Battery



POWER-UP CAP INSTALLATION

The Power-Up Cap is a Chesterton Connect™ sensor accessory utilized when only vibration measurements are needed and the Pressure/Temperature sensor cable is not in use.

In the Mobile App:

1. Select the sensor you want to add the Power-Up Cap.
2. Select **Settings** (see figure 1).
3. Turn Off **Corded Sensor** (see figure 2).
4. An Alert window will appear, click **Ok** (see figure 3).
5. Disconnect the P/T sensor cable M12 pin connector from the physical unit. This will deactivate the unit.
6. An Alert window will appear, click **Ok** (see figure 4).
7. Connect the Power-Up Cap to the physical unit. The unit's LED alert system will flash red, green, blue.
8. Go back to the app main screen (see figure 5). Within 10 seconds, the Pressure and Temperature values will appear neutral (-).
9. In the app main screen, a clock icon will be displayed next to the battery level icon (see figure 6). The clock icon means the sensor needs to synchronize with the app obtain the correct timestamp. To synchronize the time, in the app select the sensor and select "Settings". The sensor blue LED lights will blink and the clock will be synchronized.

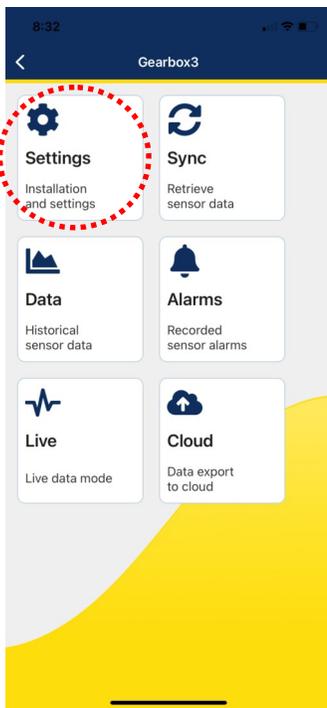


Figure 1

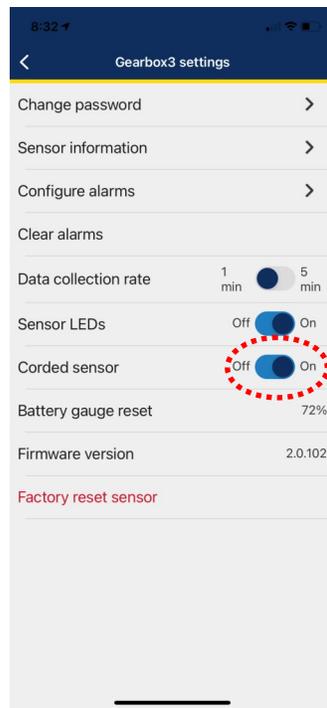


Figure 2

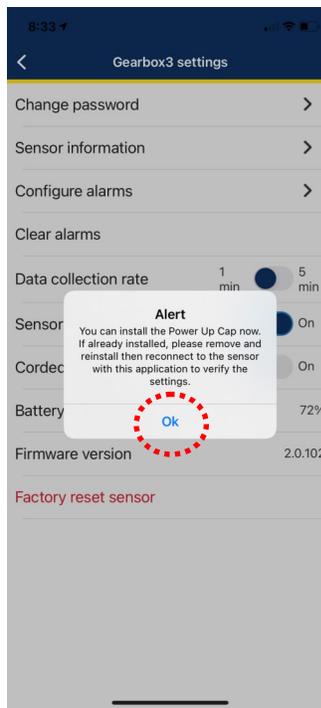


Figure 3

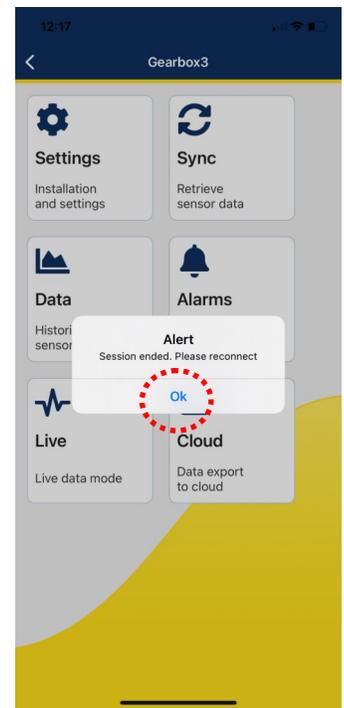


Figure 4

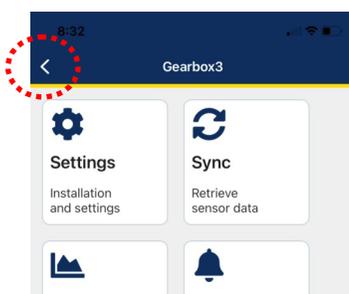


Figure 5

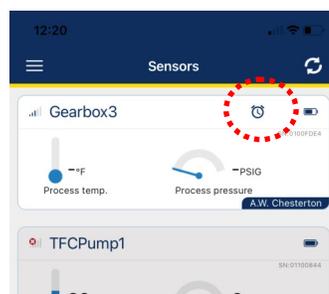


Figure 6

Note: To remove the Power-Up Cap and reconnect the P/T sensor, simply repeat the same steps turning on the Corded Sensor in step 3, removing the Power-Up Cap, and connecting the P/T sensor.

LOGIN INTO CLOUD ACCOUNT WEBSITE

1. Open your browser and go to:
connect.chesterton.com
2. Click **Forgot Password?** (see figure 7).
3. An e-mail dialog appears—enter your company email all lowercase (see figure 8).
4. Click the Submit button (see figure 9).

Note: Please contact Connect.Support@Chesterton.com to request a Cloud account.

5. You will see a dialog box specifying that an email has been sent (see figure 10).
6. Open your email and click on the link that was provided. Login with your corporate email address, and newly created password.

Note: Only company email address formats are accepted. Non-corporate email such as Gmail or Yahoo are not supported.

The screenshot shows the login page with the Chesterton Connect logo and the CHESTERTON logo. There are input fields for USERNAME and PASSWORD. A 'SUBMIT' button is located at the bottom right. The 'Forgot Password?' link is circled in red.

Figure 7

The screenshot shows a dialog box with the Chesterton Connect logo and the CHESTERTON logo. There is an 'E-Mail Address' input field and 'CANCEL' and 'SUBMIT' buttons. The input field is circled in red.

Figure 8

The screenshot shows the dialog box with the 'E-Mail Address' input field containing 'Joseph.Smith@company.com'. Below the input field, it says 'No user found with that email address'. The 'SUBMIT' button is circled in red.

Figure 9

The screenshot shows a confirmation dialog box with the Chesterton Connect logo and the CHESTERTON logo. The text reads: 'An email has been sent to you to reset your password. Please check your email and follow the link provided to reset your password. You may need to check your spam folder in case the email is placed there.' Below the text is a 'Return to login page' link.

Figure 10

Connecting App to Cloud

LOGIN INTO CLOUD ACCOUNT

1. Open the Chesterton Connect app, select **Cloud Account** (see figure 11).
2. Select **Login** (see figure 12).
3. The following message will pop-up: “Chesterton Connect wants to use “davra.com” to Sign in”—click **Continue** (see figure 13).
4. The web browser will open up. On the web browser, enter the **Username** (Company email address) and cloud **Password** (see figure 14).
5. Select **Submit** (see figure 15).

Note: Please contact Connect.Support@Chesterton.com to request a Cloud account.

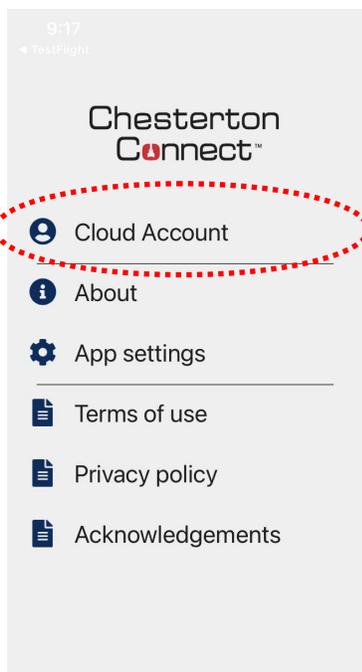


Figure 11

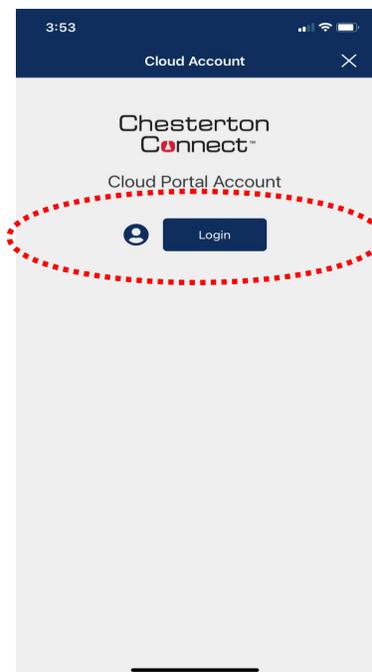


Figure 12

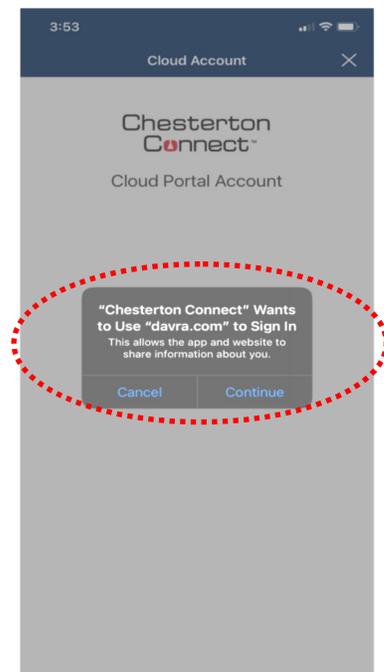


Figure 13



Figure 14

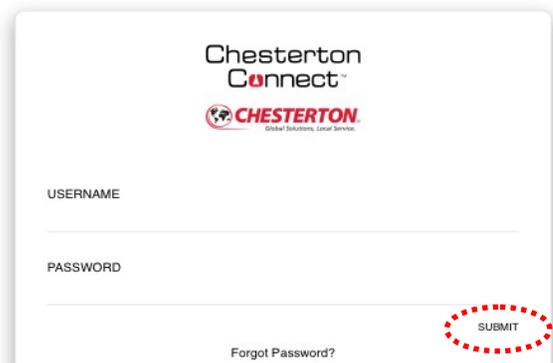


Figure 15

Creating a New Cloud Account User

1. Open your browser and go to [Connect.Chesterton.com](https://connect.Chesterton.com). **Login** using your Cloud account credentials.
2. Select the **Organization** tab (see figure 16).
3. Select **Users**.
4. Select **New User**.
5. Select **New User**.
6. Fill out the pop-up window with the requested information. Email must be the company email address ending on the respective domain.
7. Follow the prompts to complete the user setup.

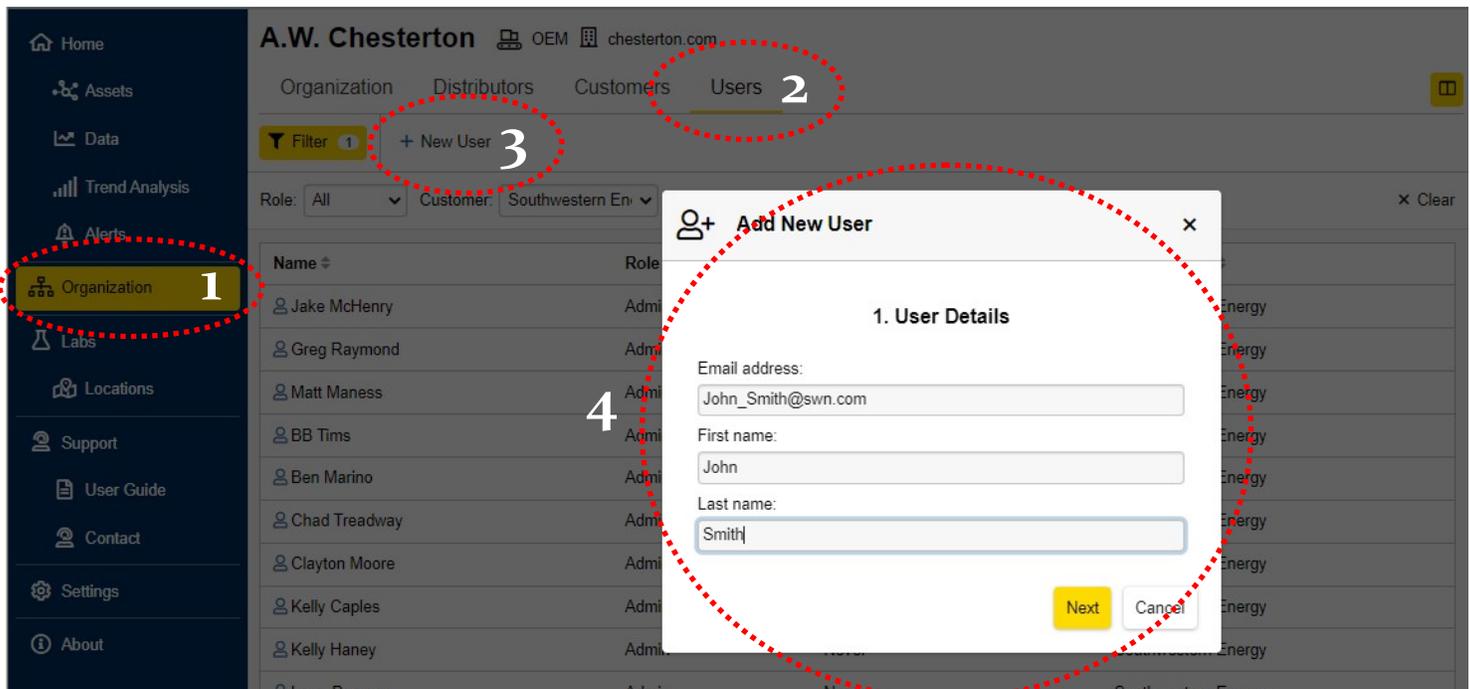


Figure 16

Registering Sensor to the Mobile App

Once the sensor is turned on and visible in the mobile app, it is time to register your new sensor. Note that each sensor requires a password to access the sensor.

1. Select the new “unregistered” sensor (see figure 17).
2. Enter a password for the sensor. Retype the password.
3. Select **Next** (see figure 18).
4. The unit comes with a pre-configured name. Change the name for better identification.
5. Once all fields are completed, select **Save** (see figure 19).

Note: Password requirement is 20 characters max and only ASCII characters (shown below).

!"#\$%&'()+,-./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~*

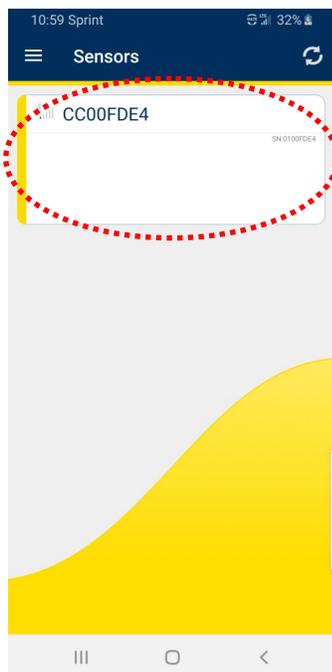


Figure 17

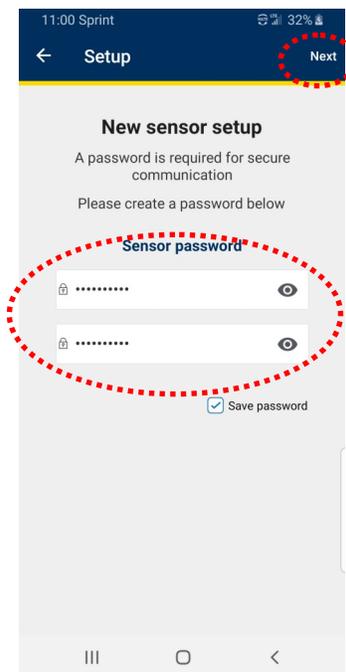


Figure 18

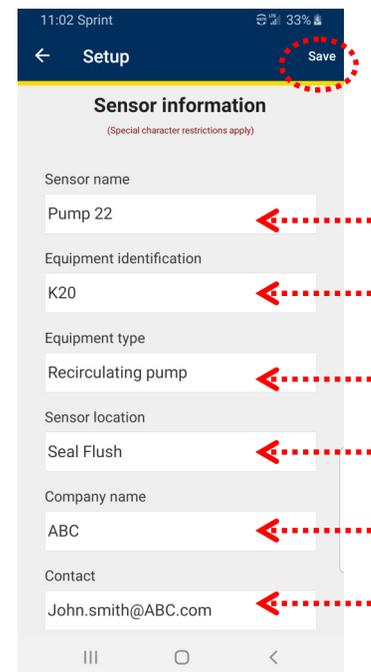


Figure 19

Note: Company Name and Contact Name fields are not stored in the device. These fields are only visible for a new device setup.

Registering Sensor to the Cloud

1. With your mobile app logged into Cloud account.
2. Choose the sensor you want to register in the cloud.
3. Select **Sync** (see figure 20).
4. Use the drop-down menu to select the time period for data retrieval (see figure 21). Selecting longer sync periods will result in longer transfer times.
5. Select **Sync** (see figure 22). Once the measured data is synced, the app will automatically go back to the main menu.
6. Select **Cloud** (see figure 23).
7. Follow the prompts in the pop-up window to register the sensor to the cloud account.

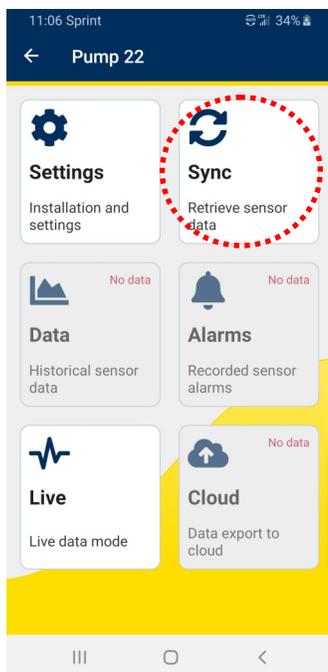


Figure 20

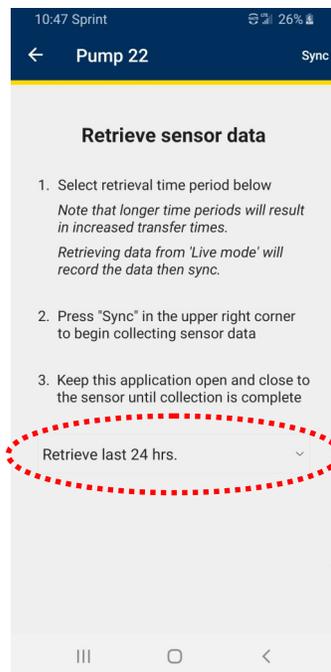


Figure 21

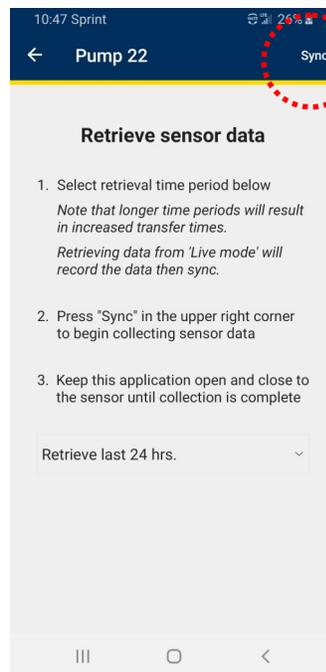


Figure 22

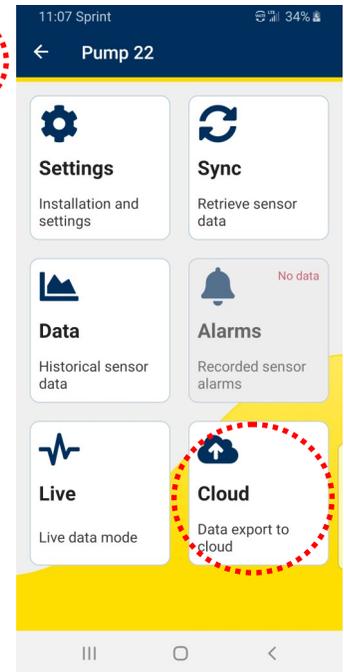


Figure 23

Gateway Installation

Note: Mobile device must have Bluetooth® on. Chesterton Connect App must be within 20m (65ft) Bluetooth® range from the Gateway to perform the registration process.

GATEWAY REGISTRATION

1. In the Chesterton Connect™ App, select the **Gateway** tab (See figure 24).
2. Select the gateway to be added to the cloud. The device should have a yellow left border indicating that it is not registered. If multiple Gateways are present you may use the identify function (swiping left for IOS devices, or pressing and holding for Android devices) to locate the gateway, this will turn on the gateway's Blue LED for 10 seconds.
3. Select **Cloud Sync** (See figure 26).
4. Enter a device name.



Figure 24

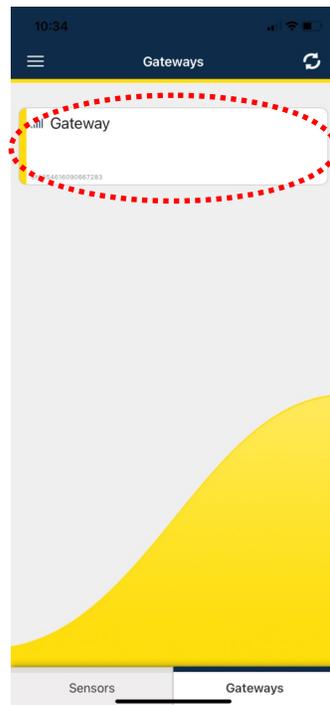


Figure 25

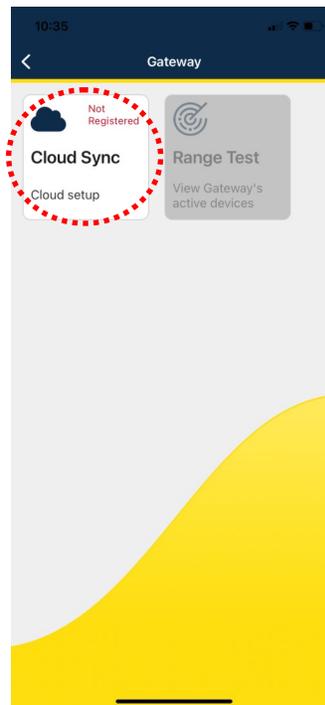


Figure 26

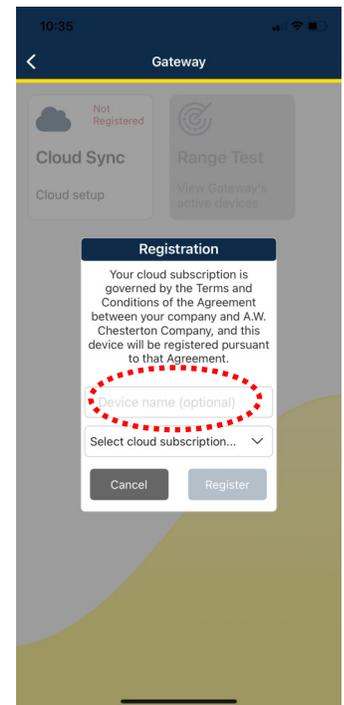


Figure 27

Gateway Installation

GATEWAY REGISTRATION—Continues

Note: The Gateway will automatically connect to the nearest cellular network. This connection can take up to 10 minutes depending on the local cellular signal strength.

- Choose your cloud account from the drop down menu (See figure 28).
- Select **Register** (see figure 29). The Gateway will turn on its Blue LED during the registration process.
- The gateway will automatically go through the registration process (Figures 30—31). After completion select **Ok**.

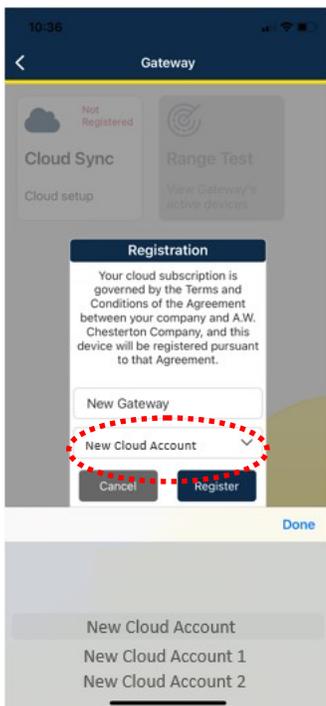


Figure 28

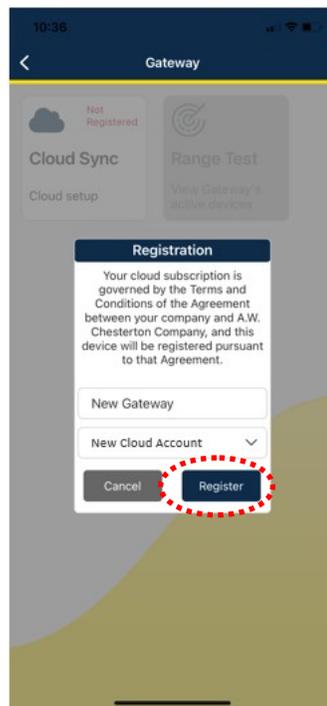


Figure 29

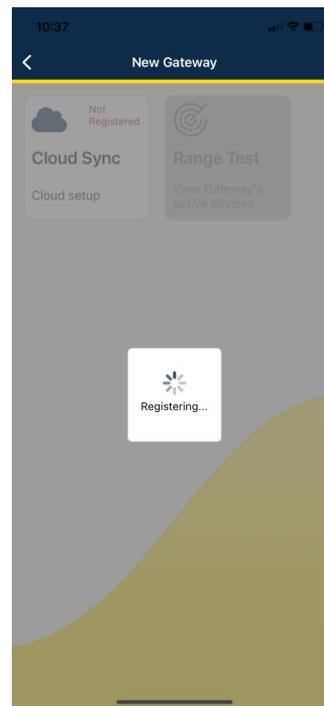


Figure 30

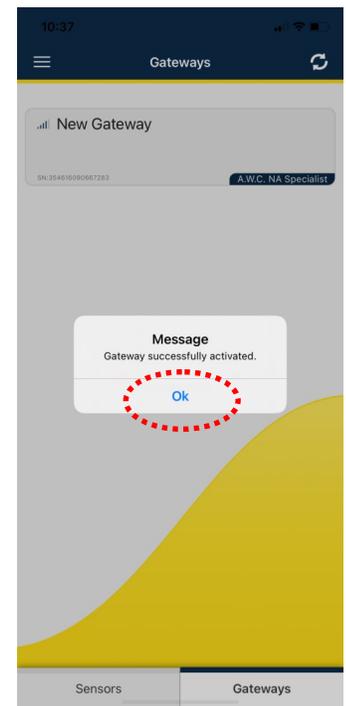


Figure 31

Gateway Installation

ASSIGNING SENSORS TO GATEWAY

Note: Mobile app must be within 20m (65ft) Bluetooth range from the Gateway.

6. In the mobile app, select the Gateway.
7. Select **Range Test** (see figure 33).
8. Select **Edit** (See figure 34).
9. The checkmarks will become enabled. Select the sensors that belong to the truck the gateway is registered to.
10. Select **Save**. The selected sensors will be the only devices the gateway will communicate with.

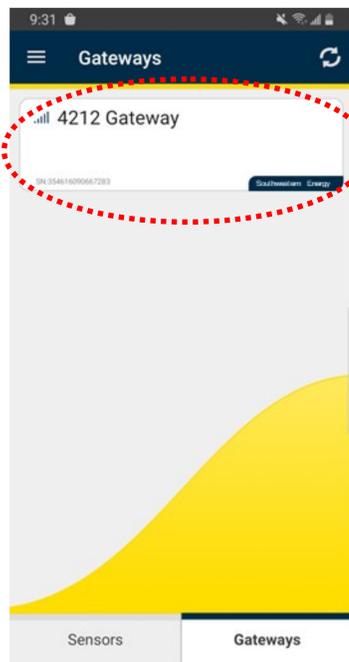


Figure 32

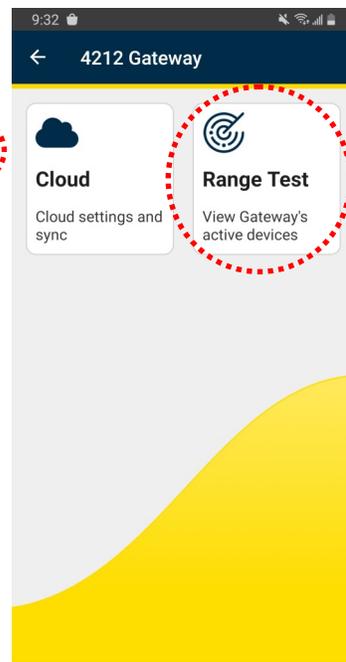


Figure 33



Figure 34

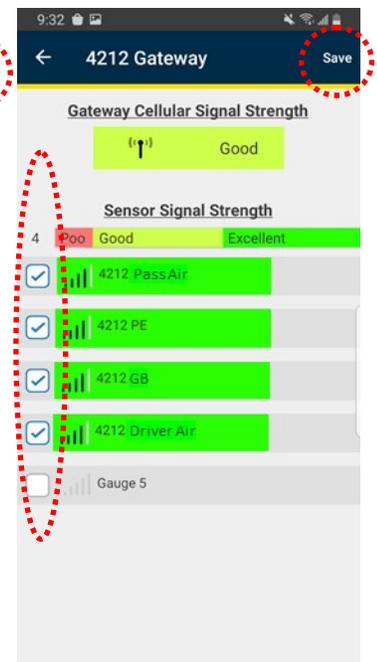


Figure 35

Note: The Range Test helps for signal. The Gateway Cellular Signal Strength helps determine if the Gateway is located within cellular signal. The Sensor Signal Strength displays Sensors-to-Gateway distance signal strength.

Setting Alerts and Notifications

Open your browser and go to [Connect. Chesterton.com](https://connect.chesterton.com). **Login** using your Cloud account credentials.

1. Select the desired **Sensor**.
2. Select **Alerts** icon.
3. Select **Edit**.
4. Select the parameter you wish to add alerts.

5. Select the specific value. Custom allows you to enter any value. ISO standards allows you to select preset values from the shown ISO vibration standards.
6. Select **OK**.
7. Enable **Notifications**.

Example below for *Vibration*.

The screenshot shows the 'Edit 4212 GB Alert Thresholds' dialog box. The dialog is titled 'Edit 4212 GB Alert Thresholds' and contains the following text: 'Set alert thresholds for sensor 4212 GB by selecting a metric below and entering the thresholds that match the normal operating conditions of the asset that sensor 4212 GB is installed on. If a metric value reported by sensor 4212 GB is detected **outside** of the thresholds set below, an alert will be created for the sensor.'

- Thresholds are unique to the sensor, changing them will overwrite the thresholds for all users.
- Creates a maximum of 1 alert every 2 hours.

The dialog has two main sections: 'Acceleration' and 'Velocity'. The 'Velocity' section is selected and has the 'Enabled' toggle turned on. Under 'Velocity', the 'ISO standards' radio button is selected. The 'Specification' section has '10816-7' selected. The 'Category' section has 'I' selected. The 'Power' section has '<200kW' selected. The 'Thresholds' section has 'Warning: 0.20 in/s' and 'Alarm: 0.33 in/s'.

Red dashed circles and numbers 1-7 are overlaid on the screenshot to indicate the steps described in the text:

1. Select the desired **Sensor**.
2. Select **Alerts** icon.
3. Select **Edit**.
4. Select the parameter you wish to add alerts.
5. Select the specific value. Custom allows you to enter any value. ISO standards allows you to select preset values from the shown ISO vibration standards.
6. Select **OK**.
7. Enable **Notifications**.

Figure 36

Adding Device Properties in the Cloud

Adding properties can help manage the assets in the cloud. Open your browser and go to [Connect. Chesterton.com](https://connect.chesterton.com). Login using your Cloud account credentials.

1. Select the desired **Sensor**.
2. Select **Info** icon.

3. Select **Edit**.
4. From the dropdown menu select the property you wish to enter and fill in the values for each.
5. Select **OK**.

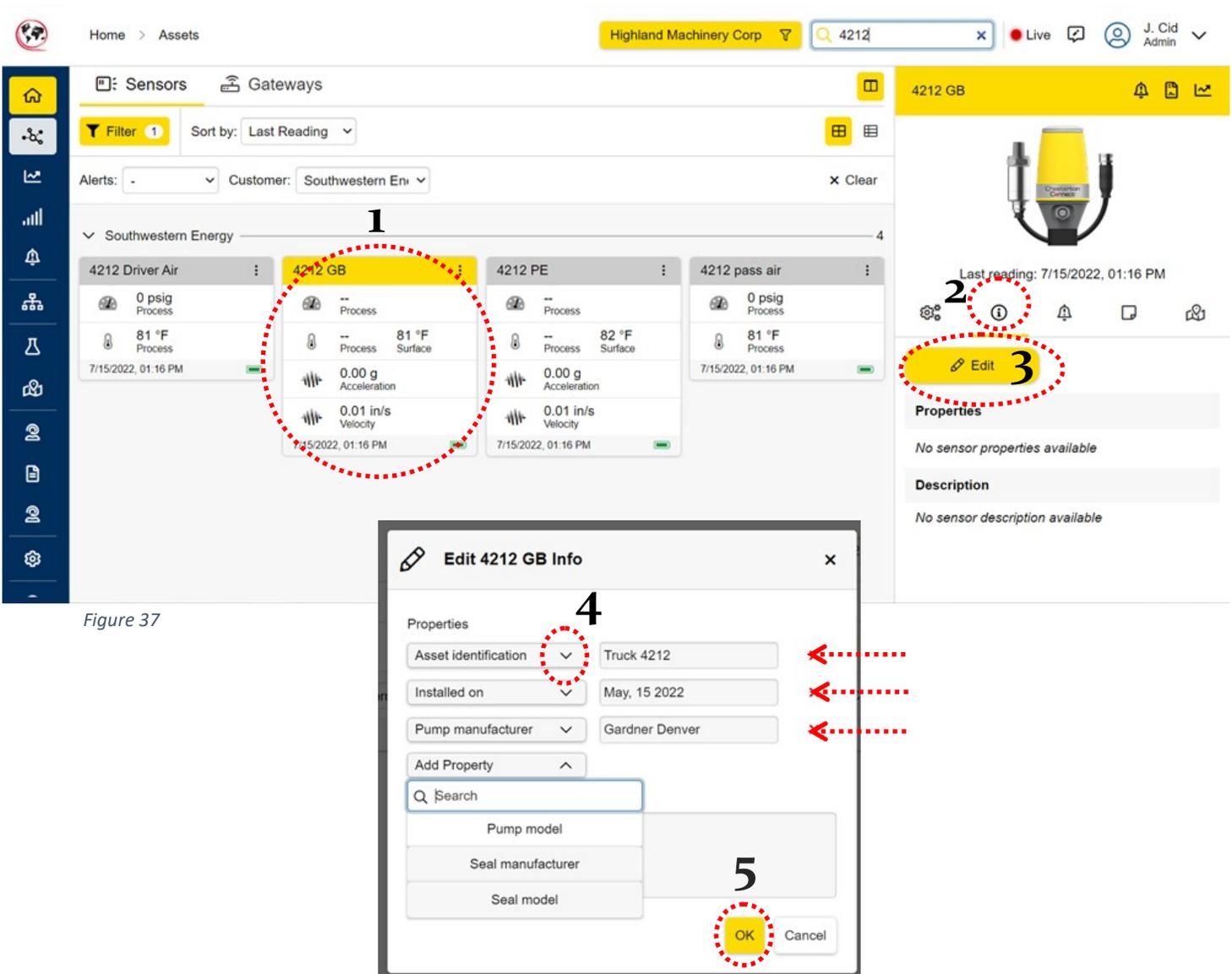


Figure 37

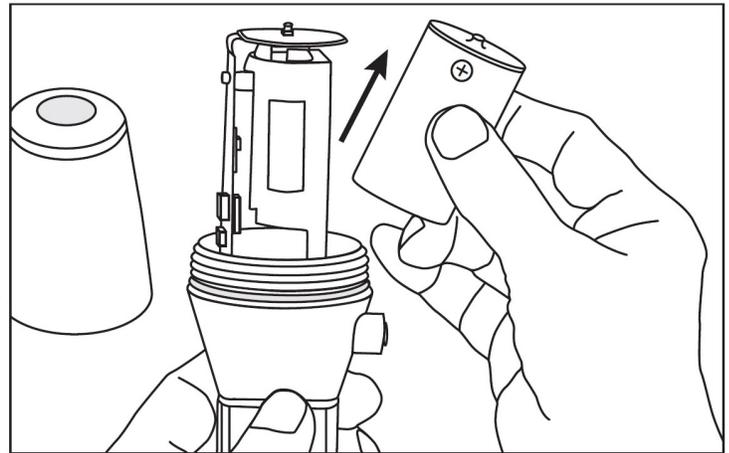
Battery Replacement

App will indicate when the battery is low, to replace the battery:

1. Disconnect the M12 pin connector from the unit. This will deactivate the unit. Ensure P/T cable is safely secured.
2. Move the unit to a clean and dry location.
3. Once in a clean and dry location, unscrew top housing.
4. Remove the battery protection covers. Remove the old battery. Follow local laws for proper disposal of the old battery.
5. Insert the replacement battery positive side up as shown. Replace only with Chesterton battery, item number 403683.

6. Re-attach the protection covers and the top housing until it is finger tight.

7. Re-attach the M12 pin connector to the base unit. This will reactivate the unit. Turn the connector nut until it is finger tight. The unit will flash red, green, blue and green (again) when activated.



Once replaced, the battery gauge in the app and cloud must be reset. To reset the battery gauge:

1. Select the sensor you want to reset the battery.
2. Select **Settings** (see figure 38).

3. Select **Battery gauge reset** (see figure 39).

4. A Warning will appear, click **Yes** and reset to 100% battery (see figure 40).

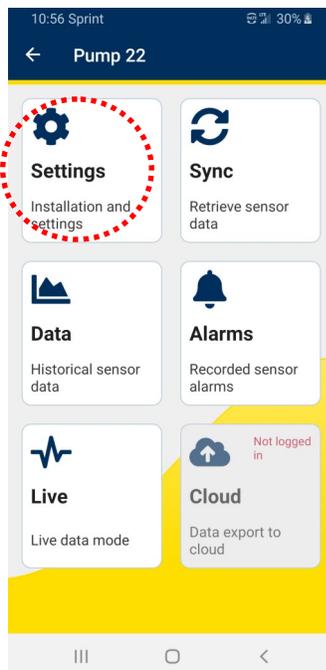


Figure 38

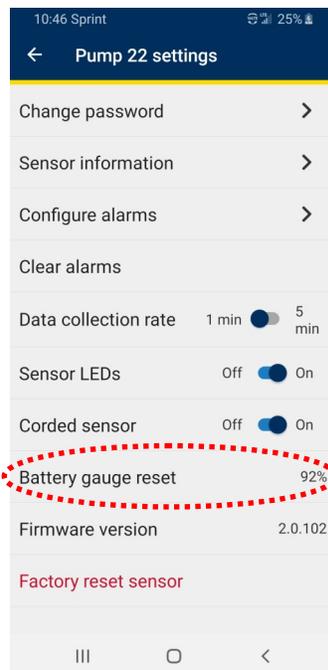


Figure 39

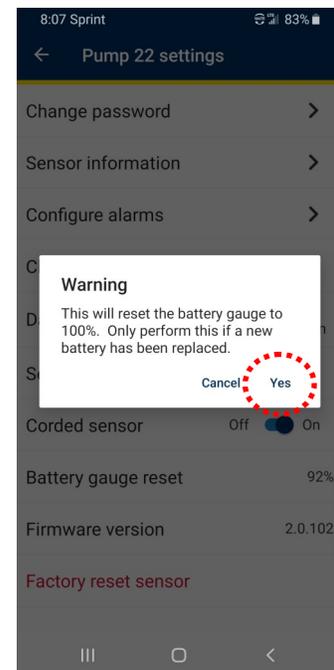


Figure 40

Versions and Updates

DEVICE VERSION: Should there be any firmware updates, the available updates for the sensor will be displayed (see figure 41). Follow the **blue circle** in the **Settings** menu (see figure 42).

1. Select **Settings** (figure 42).
2. Select **Update available** (figure 43).

3. In the Product Update pop-up window, select **Yes** and follow the prompts to start and finish updates installation (see figures 44, 45 & 46).
4. New sensor **firmware version** will be displayed in the settings page (see figure 47).

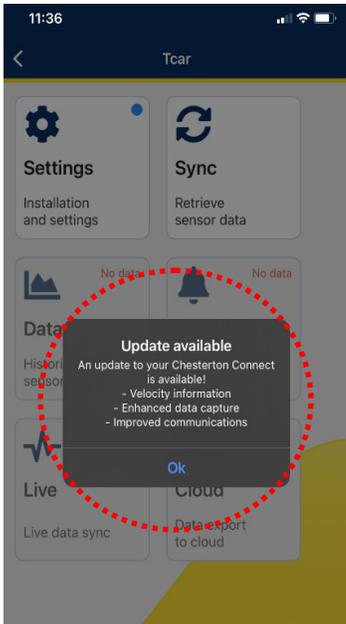


Figure 41

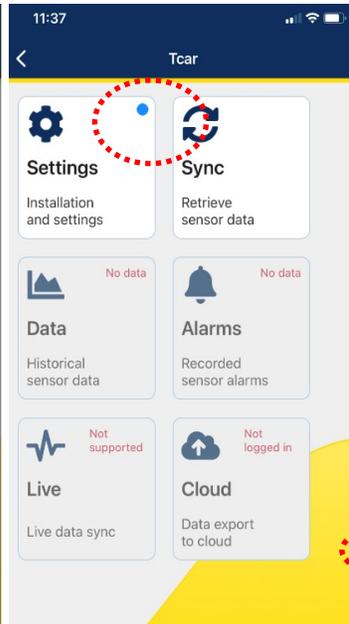


Figure 42

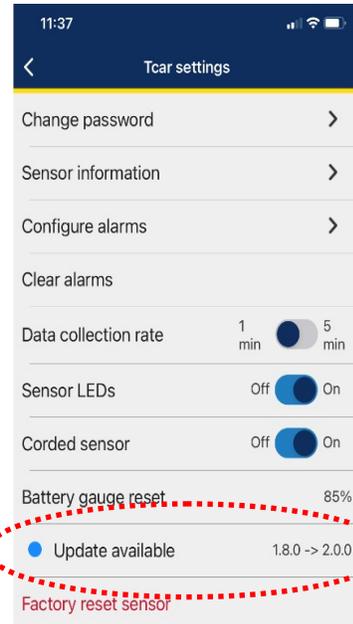


Figure 43

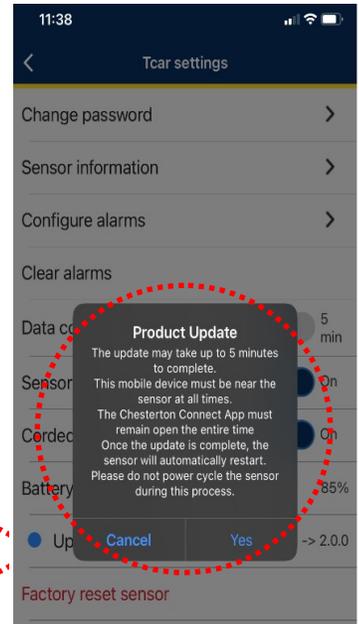


Figure 44

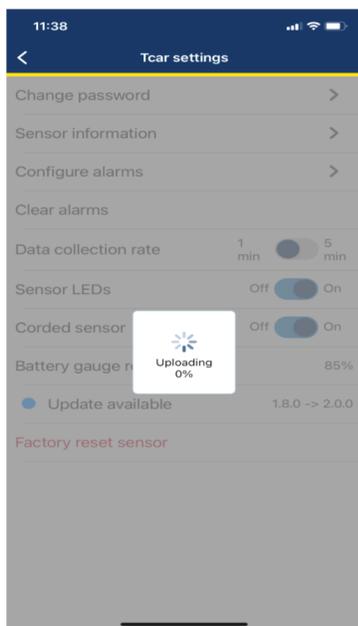


Figure 45

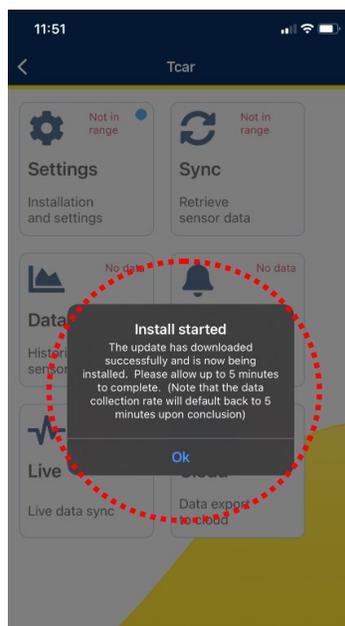


Figure 46

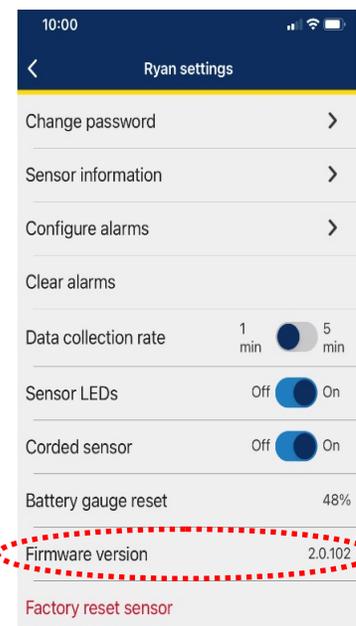


Figure 47

Versions and Updates

TECHNICAL SUPPORT: Connect.support@chesterton.com

SENSOR VERSION

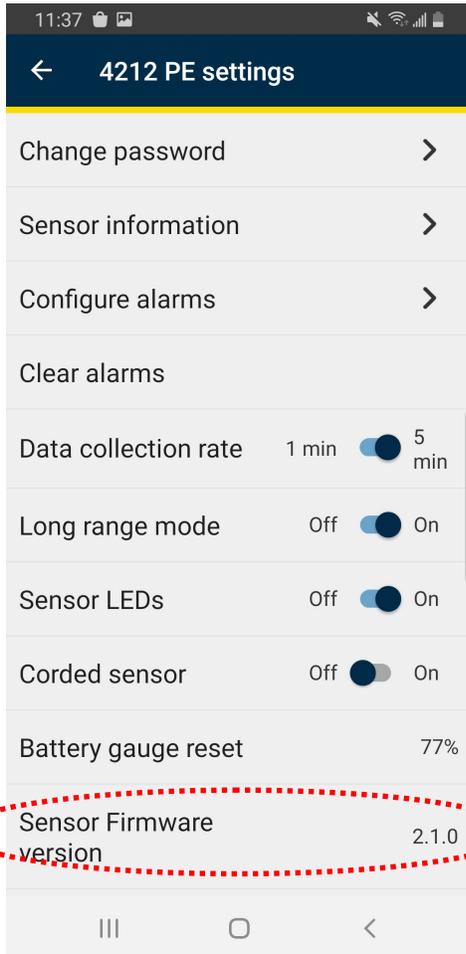


Figure 48

APP VERSION

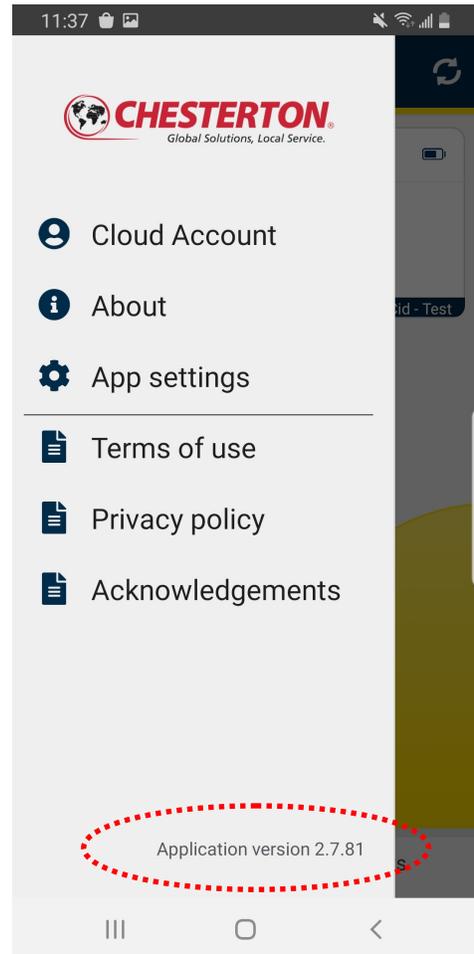


Figure 49

Document List

Sensor User Guide



Gateway User Guide



Mobile App User Guide



Gauge User Guide



Chesterton Connect™ is a trademark of A.W. Chesterton Company. The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by A.W. Chesterton is under license. Apple, the Apple logo is a trademark of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc. Google Play, the “Android” name, the Android logo, the “Google play” brand, and other Google trademarks, are property of Google LLC. Technical data reflects results of laboratory tests and is intended to indicate general characteristics only.

A.W. Chesterton Company disclaims all warranties express, or implied, including warranties of merchantability and fitness for a particular purpose. Liability, if any, is limited to product replacement only. Any images contained herein are for general illustrative or aesthetic purposes only and are not intended to convey any instructional, safety, handling or usage information or advice respecting any product or equipment. Please refer to relevant Safety Data Sheets, Product Data Sheets, and/or Product Labels for safe use, storage, handling, and disposal of products, or consult with your local Chesterton sales representative.