

# Veris Sensors App

*For Use with Differential Pressure /  
Air Velocity Transducers*

## Introduction

The PX3 transducer can measure either air pressure or velocity with the flip of a switch. The PX3 is available in three installation configurations: duct, panel or universal. Duct and panel models have two pressure and velocity ranges: 0-1 in. WC / 0-3,000 ft/min or 1-10 in. WC / 3,000-6,000 ft/min with four field-selectable sub-ranges. The universal model comes in one pressure/velocity range: 0-10 in. WC / 0-7,000 ft/min with seven field-selectable sub-ranges for pressure and eight for velocity. All variants are available with and without display. The PX3 has an IP65/NEMA 4 environmental rating and a 5-year limited warranty.

The Veris Sensors App provides the ability to connect to a device and configure a variety of field-selectable parameters remotely from a smartphone via Bluetooth technology. The app allows users to create and store commonly used parameters that will reduce commissioning time and provide assurance that all parameters are properly configured with no call backs. The app can also create a trend log while connected, providing important data for troubleshooting purposes.

This quick start guide provides high-level instructions intended to get new users up and running with the Veris Sensors App. For a more in-depth description of how to use the app, see the [Veris Sensors App User's Guide](#) available on the Veris website.

*Note: Devices without Bluetooth technology are not supported by the Veris Sensors App.*

## Getting Started

The Veris Sensors app is free of charge and operates on iOS® and most Android® operating systems.

### iOS Users

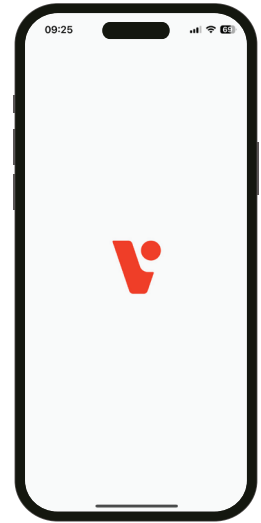
iOS users can download the app through the iOS App Store on their smart device. The app is compatible with iOS version 16 and higher.

### Android Users

Android users can download the app through the Google Play™ store on their smart device. The app is compatible with Android version 15 and higher.

### Accessing the App

1. Open the Veris Sensors App by touching the icon on your smart device's home screen.
2. The Welcome screen appears, displaying the Veris logo.
3. The first time you launch the app, you will be asked to review and accept the license agreement. Touch **Agree** to proceed.



Welcome Screen

### Home Screen

#### Home Screen Navigation

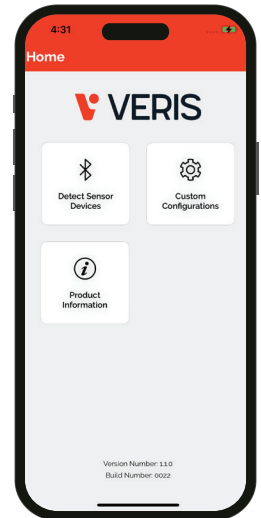
At the top level, the Veris Sensors App consists of three main options:

- Detect Sensor Devices
- Custom Configurations
- Product Information

To navigate between the screens, select the required option.

#### iOS vs. Android Navigation

The screen shots shown throughout this quick start guide reflect the iOS environment. Navigation within the Android environment is almost identical, with the exception of the user experience differences based on the phone's environment.



Home Screen

## Bluetooth Screen

### Select Your Sensor Type

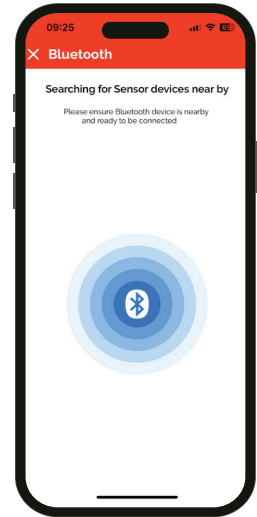
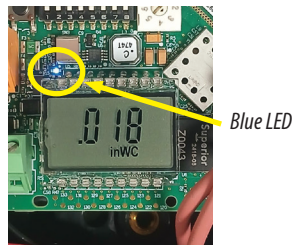
1. After following the steps in the Accessing the App section above, select the **Detect Sensor Devices** option to detect near by devices.
2. Select **Dry Pressure/Velocity Transducer** to be guided to the Detected Devices screen.
3. The Bluetooth screen will appear.
4. If there is no device near by, a timeout message will appear.
5. Otherwise, the **Detected Devices** screen will appear, showing all available devices on the screen.

*Note: The app presently only supports the Dry Pressure Velocity Transducer, so only Dry Pressure Velocity Transducer devices are displayed in the Detected Devices screen.*

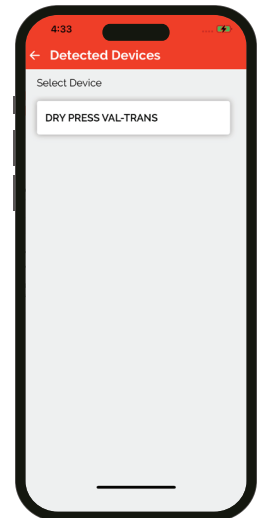
### Choose From Detected Devices

1. Touch the device you wish to access from the list shown on the screen.
2. When the device is powered, the illuminated blue LED will either be solid to indicate that hardware switches control the configuration or it will blink slowly to indicate that the mobile app was previously used to set the configuration. When you select a device name from the list, the LED will begin to blink quickly, providing confirmation that you have connected to the desired device. Models without Bluetooth technology have a red LED and are not supported by the app.

*Note: If the blue LED does not begin to blink quickly, touch **Cancel** at the Security PIN prompt and select another device from the list on the Detected Devices screen. This may be an indication that you have connected to a different device.*



Bluetooth Screen

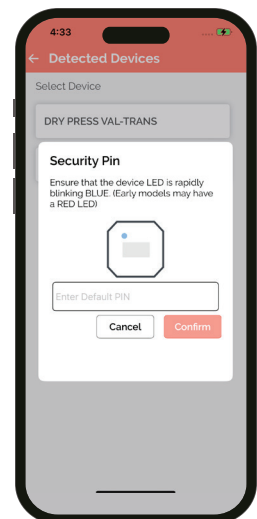


Detected Devices Screen

### Create/Enter Your PIN

1. After you have connected to the intended device, you will be asked to enter a PIN specific to the device in order to access it. When connecting to a device for the first time, enter the default PIN of **0000**.
2. After entering the default PIN, you will be prompted to create a new PIN. The new PIN must be four numeric digits (0-9). In addition, the numbers may not all be the same and may not be sequential (i.e., 1234 or 7654, etc.).
3. Once you have entered your PIN and are connected to the intended device, you will automatically be guided to the Connected Device screen's Information tab.

The Connected Device screen includes three tabs to view various aspects of device operation. The tab displayed can be selected from the bottom of the screen.



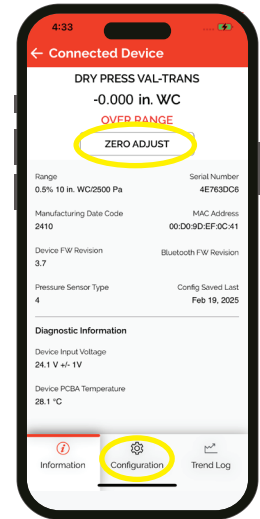
PIN Entry Screen

## Connected Device Screen

### Information Tab

After entering your PIN, the Information tab is displayed. Here you can view general characteristics of the selected device, along with real-time pressure or velocity measurements as recorded by the device. The name of the device is displayed in the title bar at the top of the screen.

1. Touch **Zero Adjust** if you would like to calibrate the baseline.
2. To move to the **Configuration** tab, touch its tab at the bottom of the screen.

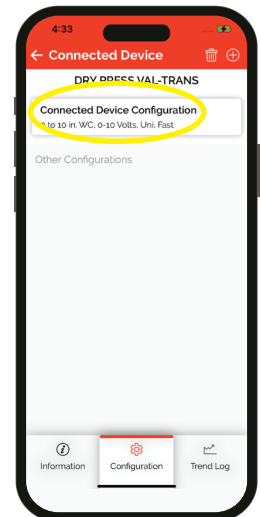


Information Tab

### Configuration Tab

The Configuration tab provides the means to create a custom configuration, edit it, save it locally, or upload it to the connected device. The title bar shows the name of the connected device. This screen provides a list of custom configurations saved within the app that apply to the connected device's model. If no custom configurations have been created, only one entry will be visible (Connected Device Configuration). This entry shows a preview of the settings of the connected device.

Select **Connected Device Configuration** (or one of the other configurations on the list) to view or make changes to the configuration settings.



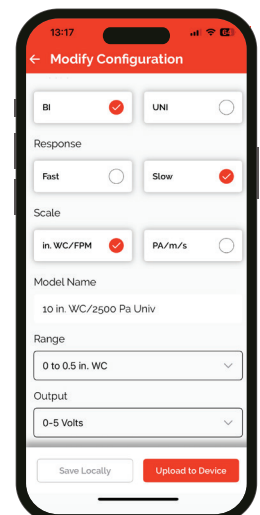
Configuration Tab

## Modify Configuration Screen

1. After selecting a configuration from the Configuration tab, the Modify Configuration screen appears, allowing the device settings to be changed. Adjust the settings on the screen to the desired values.
2. Swipe up to navigate to the bottom of the screen to reveal the Save Locally and Upload to Device buttons
3. Touch the **Save Locally** button to save the configuration to the app's internal storage.

*Note: Saving the configuration is optional. It is possible to upload settings to a device without saving those settings as a custom configuration.*

4. Touch the **Upload to a Device** button to upload the configuration to the connected device.



Modify Configuration Screen

## Modify Configuration Screen (cont.)

- The Bluetooth Settings dialog will open.

The device will automatically disable Bluetooth technology after a period of time to maintain device security. This dialog provides the option to either keep Bluetooth enabled or disable it immediately. If the device is fully configured, and will not need to be accessed again, it is recommended that the Bluetooth technology be disabled.

### Notes:

- If you turn off the Bluetooth capability after uploading, you will need to cycle (turn off/on DIP switch #7 on the device) in order to turn the capability back on.
- If you leave the Bluetooth capability on after uploading, it will remain on for 30 days. After 30 days, Bluetooth capability will be automatically turned off. Cycle DIP switch #7 if you wish to turn it back on after this period and the 30-day counter will be reset.
- After the device is turned on for the first time, the Bluetooth capability will remain active for 60 days if no configuration is uploaded to the device.

- Select either the **ON** or **OFF** option, then touch **Confirm & Upload**.
- Touch the **Back** button to clear the upload status notification.
- Touch the **Back** button again to exit the Custom Configuration screen and return to the Configuration tab.

## Trend Log Tab

*Note: For the Android version of the app, the trend log graph shows an approximate pressure value. For the exact pressure value please refer to the Information Tab on the Connected Devices Screen.*

- From the Connected Device screen, select the **Trend Log** tab to open the Trend Log.

The Trend Log screen presents a graph showing data gathered from the connected device over a period of time. The buttons at the bottom of the screen scale the Time axis to the data gathered during the last time interval selected. For example, touching **60 min** will show the last 60 minutes' worth of data from the connected device. The Refresh Trend Log button will refresh the trend log.

- Touch the gear-shaped **Trend Log Settings** icon on the right side of the title bar to open the Trend Log Settings screen.

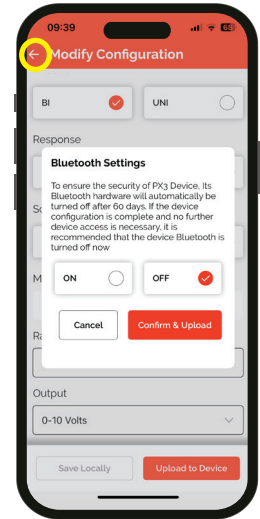
The Trend Log Settings screen appears, allowing the settings to be modified.

- After making your selections, touch the **Save** button to save the Trend Log settings.
- Touch the **Back** button to return to the Trend Log tab.
- Touch one of the **Time Period** buttons or the **Refresh Trend Log** button below the graph to see the most recent data.

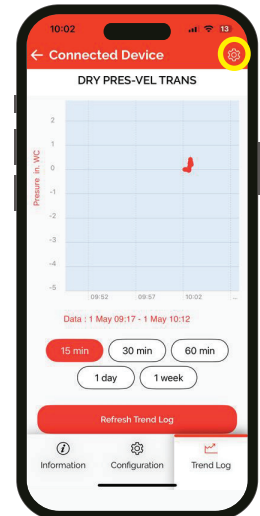
*Note: The Refresh Trend Log button is only available on the iOS version of the app.*

- Touch the **Back** button to disconnect from the device.
- In the Confirm Disconnection dialog, choose **Cancel** to stay connected to the device.
- You are returned to the Trend Log screen. Touch the **Back** button again to disconnect from the device.
- This time, touch **Confirm** to complete the disconnection.
- If the Trend Log setting, "Warn me before deleting data" is checked, an Alert appears, asking if you want Trend Log data to be deleted. Choose **Cancel** to keep the data and continue or **Confirm** to delete the data and continue.

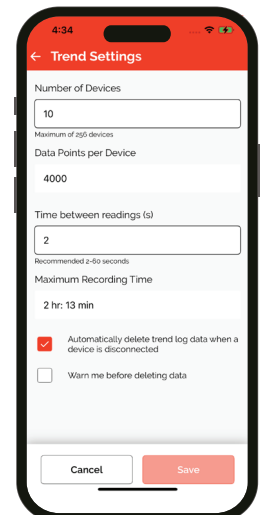
- The app returns to the Home screen.



Bluetooth Settings Dialog



Trend Log Tab

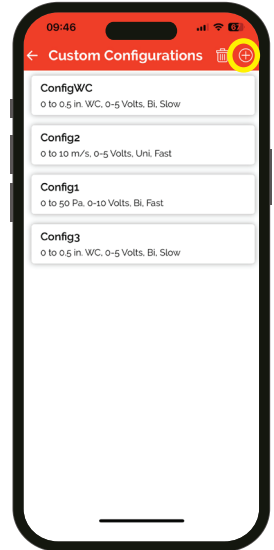


Trend Log Settings Screen

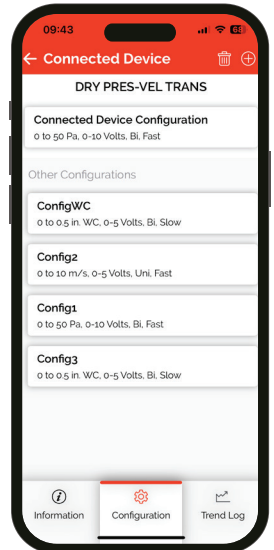
## Custom Configurations Screen

### Create a Custom Configuration

1. From the Home screen, select **Custom Configurations**. This opens the Custom Configurations screen, which shows all custom configurations saved on the mobile device.
2. Touch the **Plus** icon on the right side of the title bar. This is the Add icon which opens the New Configuration screen.
3. On the New Configuration screen, adjust any of the settings you would like to save for future use.
4. To save the new configuration, ensure that you have entered a configuration name.
5. Touch the **Back** button.
6. Your new custom configuration now appears in the list on the Custom Configurations screen.



Custom Configurations Screen

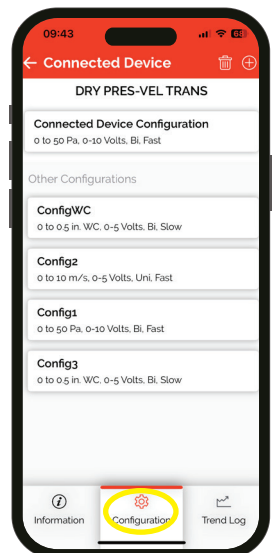


Configuration Detail Screen

### Using Custom Configurations

Once you have built a list of custom configurations, as described above, you can quickly select any configuration and upload it to a connected device.

1. From the Home screen, select **Detect Sensor Devices**. This opens the Detected Sensor Devices screen, which displays a list of all devices detected by the app.
2. Touch the device you wish to access from the list shown on the screen and enter its corresponding PIN. You will be directed to the Device Information screen.
3. Select the **Configuration** tab to view the list of available custom configurations.



Configuration Tab

## Custom Configurations Screen (cont.)

- From the list of available custom configurations, select the configuration you wish to upload to the device. The Modify Configuration screen appears.

*Note: When selecting a custom configuration, do not select the "Connected Device Configuration" entry on the list. This will write the existing device configuration back to the device if no changes are made to the settings before uploading.*

- Swipe up to navigate to the bottom of the screen to reveal the Save Locally and Upload to Device buttons.
- Touch the **Upload to Device** button on the lower right corner of the screen to upload the configuration to the connected device.
- The Bluetooth Settings dialog will open. Select either the **ON** or **OFF** option, then touch **Upload**.
- A confirmation dialog appears. Select **Confirm** to begin the settings upload. You will see two status boxes during this process. The second status box presents the final upload status: Successful or Failed.
- Touch the **Back** button to clear the upload status notification.
- Touch the **Back** button again to exit the Modify Configuration screen and return to the Configuration tab.

### Deleting Custom Configurations

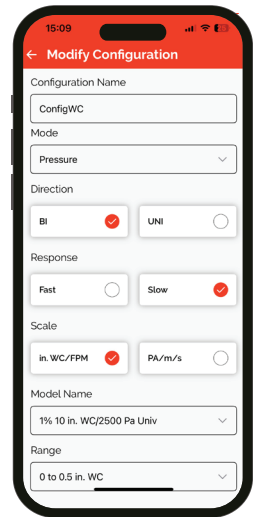
If you wish to remove one or more custom configurations from the list, follow the steps below.

- Touch the trash can icon on the upper right corner of the screen.
- From the list of available custom configurations, select the check box to the right of each configuration you wish to delete from the list.
- A check mark appears in each check box, indicating that the configuration has been selected.
- After at least one configuration has been selected, touch the **Delete** button.
- The selected configurations disappear from the list.

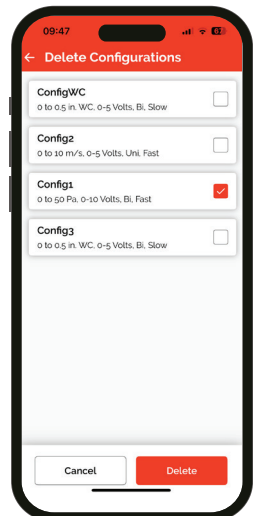
### For Further Information

Bring up the product information by touching the **Product Information** option on the Home Screen.

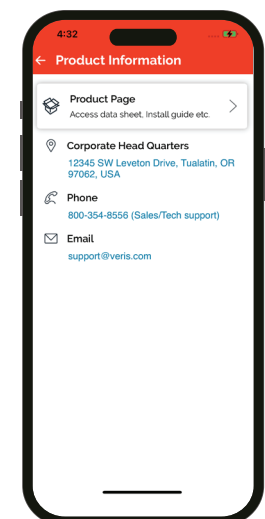
Option	Description
Product Page	Link to the sensor's product page on the Veris website.
Corporate Headquarters	Link to Google Maps showing the physical location of Veris Industries in Tualatin, Oregon USA.
Phone	Initiates a phone call to Veris Sales and Customer Support directly from your smart device.
Email Address	Initiates an email message to Veris Customer Support using the email client on your smart device.



Modify Configuration Screen



Delete Configurations Screen



Product Information Screen

## Product Information Screen