Veris Sensors App

For Use with Differential Pressure / Air Velocity Transducers

Introduction

The Differential Pressure / Air Velocity Transducer can be field configured for either pressure or velocity measurement for a wide variety of applications. In Pressure mode, building/room pressure, duct static pressure or differential pressure can be measured. In Velocity mode, air velocity can be measured for airflow monitoring applications. These devices are available in three configurations: duct, panel or universal. Duct and panel versions have two field-selectable pressure subranges: 0 to 1 in. WC/0 to 250 Pa or 0 to 10 in. WC/0 to 2,500 Pa. The universal model can be mounted remotely in a panel or directly on a duct with pressure subranges from 0 to 10 in. WC/0 to 2500 Pa. All devices are available with or without an LCD display and have an IP65/NEMA 4 enclosure rating. For information on device default configurations and security features, see Appendix A: Device Details.

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® wireless 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 critical data for troubleshooting purposes.

This user guide provides detailed instructions for using the Veris Sensors App. The Veris Sensors App Quick Start Guide, which provides high-level instructions intended to get new users up and running with the app, is also available on the Veris website.

Note: Older devices without a Bluetooth logo on the front label 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 10.3 and higher.

1. Open the **App Store** icon on your iPhone or iPad.
2. Tap **Search** and type the keywords **Veris Sensors** in the Search field to locate the product page for the app.
3. Tap **Get**. You may need to sign in with your Apple ID and password or use Touch ID or Face ID if you have them set up.
4. The app will download to your Home screen.

Android Users

Android users can download the app through the Google Play™ store on their smart device. The app is compatible with Android version 6.0 and higher.

1. Open the **Google Play store** in your device's apps.
2. In the **Search** field at the top of the screen, type **Veris Sensors** to locate the product page for the app.
3. From the product page, touch **Install** to download the app onto your device.
4. The app will download to your Home screen.

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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

Basic Navigation

Top Level Navigation

At the top level, the Veris Sensors App consists of four main screens:

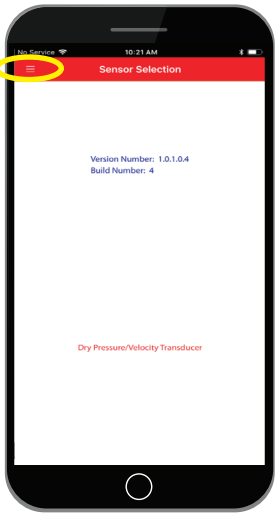
- Sensor Selection Screen
- Detected Devices Screen
- Custom Configurations Screen
- Product Information Screen

To navigate between the screens, either select the Menu icon on the left side of the title bar at the top of the screen or swipe from left to right horizontally across the screen. Both methods will bring you to the Product Menu which includes links to the four main screens listed above.

For further information on the screens and dialog boxes used in this app, see Appendix B: Application Screens & Dialogs.

iOS vs. Android Navigation

The screen shots shown throughout this user guide reflect the iOS environment. Navigation within the Android environment is almost identical, with the exception of the three tabs visible on the Connected Device screen (Information, Configuration and Trend Log). In the iOS environment, these tabs appear at the bottom of the screen. In the Android environment, they appear at the top of the screen.



Sensor Selection Screen, Menu Icon

Product Menu

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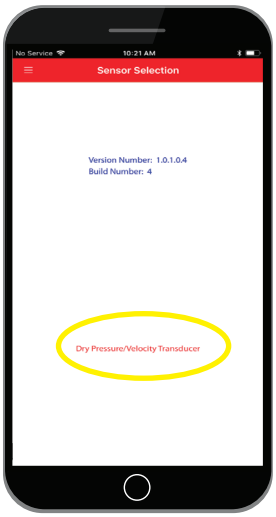
Sensor Selection Screen

Select Your Sensor Type

1. After following the steps in the Accessing the App section above, you will be automatically directed to the Sensor Selection screen.
2. Select **Dry Pressure/Velocity Transducer** to be guided to the Detected Devices screen.

Note: Once a sensor type has been selected, all other screens will pertain only to that type of sensor. The app presently only supports the Dry Pressure Velocity Transducer, so only Dry Pressure Velocity Transducer devices are displayed in the Detected Devices screen. Custom Configurations displayed and created will only be of the Dry Pressure Velocity Transducer type. Future versions of the app may support additional sensor types.



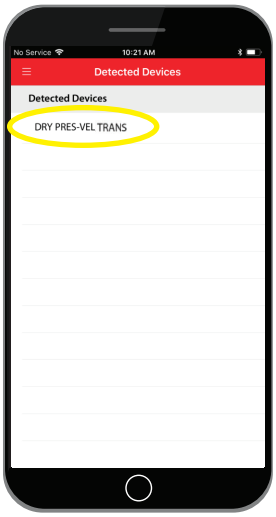
Sensor Selection Screen

Detected Devices Screen

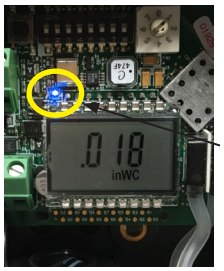
Choose From Detected Devices

1. The Detected Devices screen displays a list of all devices detected by the app. The default device name is "DRY PRES-VEL TRANS" (a shortened version of the full product description "Dry Pressure-Velocity Transducer"). Other device names may appear on the list as well.
2. Touch the device you wish to access from the list shown on the screen.
3. When the device is powered, a solid blue LED will illuminate on the device. 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. Early models may have a red LED.

   *Note: If the blue LED does not begin to blink quickly, touch **Cancel** at the Security Password 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.*



Detected Devices Screen



Blue LED

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Detected Devices Screen (cont.)

Create/Enter Your Password

After you have connected to the intended device, you will be asked to enter a password specific to the device in order to access it. There are different procedures to follow the first time you access a device versus subsequent access .

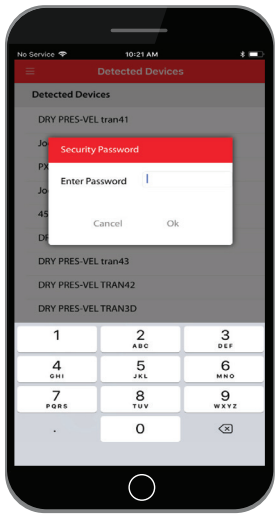
For first-time access:

1. The Password Entry dialog appears. In the Enter Password field, enter a password of **0000**. This is the default user password for the device.
2. Select **OK**.
3. The Password Entry dialog closes and the Create Password dialog appears. In the New Password field, enter a new password consisting of four numeric digits from 0 to 9. Note that you may not enter four identical numbers and the numbers may not be sequential (i.e., 1234 or 7654, etc.). You will be asked to enter the new password again in the Confirm Password field. Select **OK**.
4. The app checks to ensure both passwords match, and that the password meets the requirements. The new password will be used in the future to access the presently connected device. Note that each device requires its own unique password.
5. Once you have entered your password and are connected to the intended device, you will automatically be guided to the Connected Device screen's Information tab.

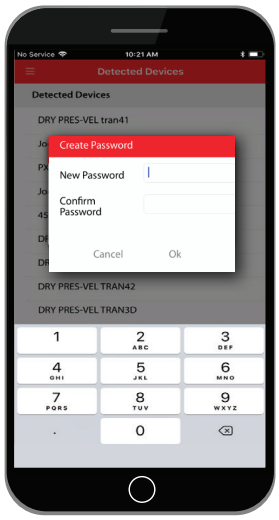
For subsequent access:

1. After you have connected to the intended device, the Password Entry dialog appears. In the Enter Password field, enter your user-created password or the factory default password printed on the device label and select **OK**.
2. The Password Entry dialog closes. You will automatically be guided to the Connected Device screen's Information tab.

For possible error conditions associated with password entry, see Appendix B: Application Screens & Dialogs.



Password Entry Dialog



Create Password Dialog

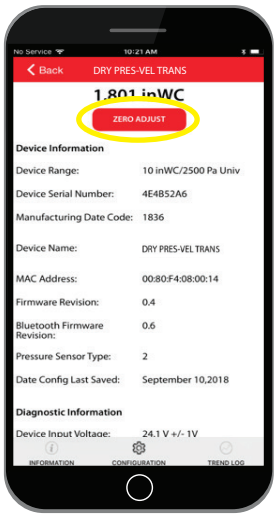
Connected Device Screen

The Connected Device screen includes three tabs (Information, Configuration and Trend Log) to view various aspects of device operation. The tab displayed can be selected from the top (Android) or bottom (iOS) of the screen.

Information Tab

After entering your password, 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.

Touch the **Zero Adjust** button if you would like to calibrate the baseline. This will reset the output and display to zero pressure. For best accuracy, press the Zero Adjust button while both ports are open to atmospheric pressure. To protect the unit from accidental zero, this feature is enabled only when the detected pressure is within about 0.1 in. WC (25 Pa) of factory calibration.



Device Information Screen

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Connected Device Screen (cont.)

This screen provides a snapshot of the connected device, including:

Parameter	Description
Device Range	The maximum pressure range determined by the product model: **10 inWC/2500 Pa Univ** is the universal model (model 05), with a maximum range of +/-10 inches WC and 8 selectable ranges **10 inWC/2500 Pa** is the 10 inWC model (model 02), with a maximum range of +/- 10 inches WC and 4 selectable ranges **1 inWC/250 Pa** is the 1 inWC model (model 01), with a maximum range of +/-1 inches WC and 4 selectable ranges
Device Serial Number	Unique 8-digit serial number assigned to the device at the factory.
Manufacturing Date Code	4-digit code where the first two digits are the year the device was manufactured, and the second two are the work week of manufacture. For example, a code of 1826 signifies that the device was manufactured in work week 26 of 2018.
Device Name	Name assigned to the device, as it appears on the Detected Devices list.
MAC Address	The MAC address assigned to the device and used by Bluetooth Low Energy to uniquely identify the device.
Firmware Revision	Identifies the version of the firmware installed in the device.
Bluetooth Firmware Revision	Identifies the version of the Bluetooth firmware installed in the device.
Pressure Sensor Type	Used by Veris Customer Support to identify the pressure sensor inside the device.
Date Config Last Saved	Indicates the most recent date when the device configuration was modified using the Veris Sensors App. If blank, the configuration of the device has never been modified.
Diagnostic Information	These parameters are updated in real time and can be reported to Veris Customer Support to assist in troubleshooting activities.

Device Information Screen

The Connected Device screen includes three tabs to view various aspects of device operation. The tab displayed can be selected from the top (Android) or bottom (iOS) of the screen. The tabs available include:

- Information - Displays overall device characteristics
- Configuration - List of devices available for configuration by the app
- Trend Log - Displays a graph of the data collected by the device over a given period of time

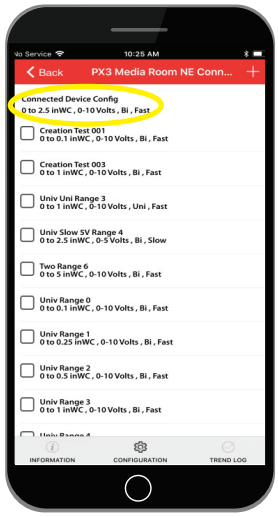
Configuration Tab

1. From the Connected Device screen, select the **Configuration** tab. Note that the screen shot at top right shows this action from the Information tab.

   The Configuration tab provides a means to edit and upload settings 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. If no custom configurations have been created, only one entry will be visible (Connected Device Config). This entry shows a preview of the settings in the connected device.

2. Select **Connected Device Config** (or one of the other configurations on the list).

   The Custom Configuration screen appears, allowing the device settings to be changed. The available settings options are listed in the following table.



Configuration Tab

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Connected Device Screen (cont.)

Setting	Description
Update Password	Opens the Update Password dialog, which allows you to change the device password.
Mode	The equivalent of DIP switch 2 on the device PCBA. This allows selection between the Velocity and Pressure modes of operation.
Direction	The equivalent of DIP switch 3 on the device PCBA. This allows selection between unidirectional and bidirectional output scaling.
Response	The equivalent of DIP switch 4 on the device PCBA. This allows selection between Slow and Fast filter response of the sensed pressure. In Fast mode, a change in pressure results in a change in output within 2 seconds. In Slow mode, a change in pressure results in a change in output within 20 seconds.
Scale	The equivalent of DIP switch 1 on the device PCBA. This allows selection between the inches WC (ft/min) and Pascal (m/s) units of measure.
Model Name	This read-only field provides the text description of the connected device's model.
Range	The equivalent of the 8-position rotary switch on the device PCBA. This allows selection of the desired full-scale range used by the device. This will affect the output signal scaling. Consult your sensor's installation guide for a full list of rotary switch settings for each range.
Output	The equivalent of DIP switches 5 and 6 on the device PCBA. This allows selection of the output to one of the following modes: 4-20 mA, 0-5 Vdc or 0-10 Vdc (default setting).
Device Name*,**	Allows you to assign a descriptive name to the connected device. The name is limited to 19 alphanumeric characters, including most special symbols.
Configuration Name*,**	Up to 30 alphanumeric characters may be entered to uniquely identify a set of configuration parameter values.

** The device does not store any personal information. It does, however, provide user assigned Device Name and Configuration Name parameters that are designed to be easily accessible. To ensure data privacy, it is highly recommended that personal information NOT be placed in these fields. Use general terms to help identify the device. For example, rather than a Device Name of "CEO Jane Doe's Office", consider something like "Office 123 Duct".*

*** The device stores the Device Name. The Configuration Name is stored on the app and not in the device itself. This allows any custom configuration to be applied to multiple devices.*

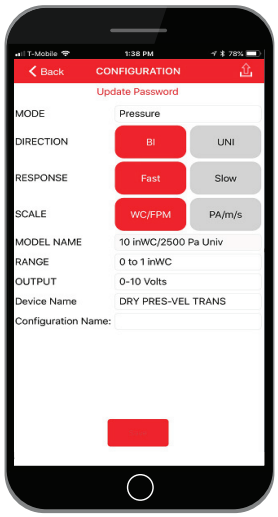
3. Adjust the settings on the screen to the desired values.
4. Touch the **Save** button to save the configuration to the app's internal storage.
   Note: Saving the configuration is optional. It is possible to upload settings to a device without saving those settings as a custom configuration.
5. Touch the **Upload** icon on the right side of the title bar to upload the configuration to the connected device.
6. The Bluetooth Settings dialog will open.

   The device will automatically disable Bluetooth capability 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 be disabled.

Notes:

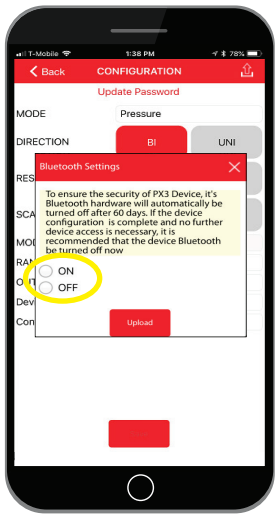
- *If you turn off the Bluetooth capability after uploading, you will need to cycle (turn off/on DIP switch #7 on the device) in order to turn the capability back on .*
- *If you leave the Bluetooth capability on after uploading, it will remain on for 30 days. After 30 days, Bluetooth capability will 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.*

7. Select the **ON** or **OFF** option, then touch **Upload**.



Custom Configuration Screen

Custom Configuration Screen



Bluetooth Settings Dialog

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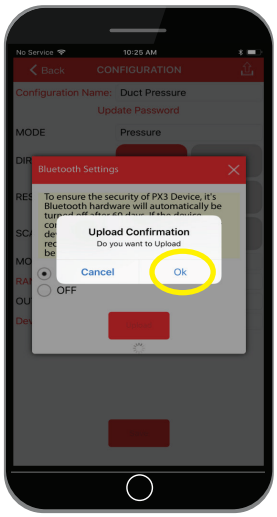
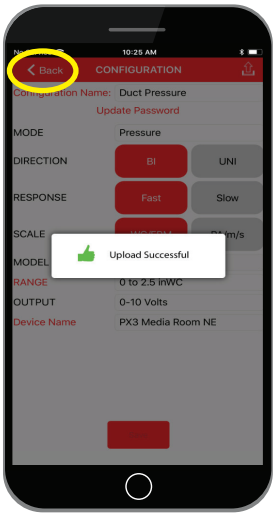
Connected Device Screen (cont.)

8. A confirmation dialog appears. Select **OK** 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.
9. Touch the **Back** button to clear the upload status notification.
10. Touch the **Back** button again to exit the Custom Configuration screen and return to the Configuration tab.
11. If the settings were saved as a custom configuration, there should now be at least two entries on the Configuration tab.
    - "Connected Device Config", which now highlights the new settings values.
    - The newly created custom configuration, with the configuration name applied as part of Step 3 above.



Upload Confirmation Prompt



Upload Successful Message

Trend Log Tab

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

Configuration Tab

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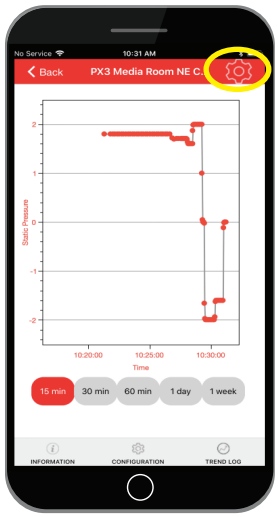
Connected Device Screen (cont.)

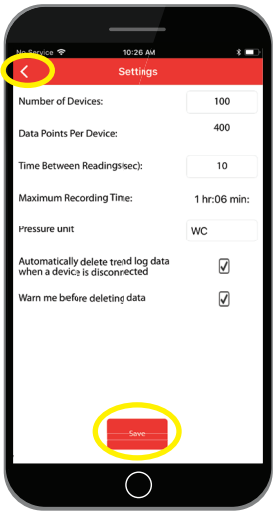
The Trend Log screen presents a graph showing data gathered from the connected device over a period of time. The buttons at the bottom of the screen scale the Time axis to the data gathered during the last time interval selected. For example, touching **60 min** will show the last 60 minutes' worth of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

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



Trend Log Tab

The Trend Log Settings screen appears, allowing the settings to be modified. The available options are listed below.



Trend Log Settings Screen

Setting	Description
Number of Devices	Enter the maximum Number of Devices for which to keep data (up to 256 devices).
Data Points Per Device	Number of pressure readings to be collected per device. This is automatically calculated by the app and is not modifiable.
Time Between Readings	Enter the time between readings as a number between 2 and 60 seconds. A time of 5 seconds or longer is recommended. Note that the app must be connected to a device to gather data points.
Maximum Recording Time	The maximum recording time is calculated by the app based on the Number of Devices and Time Between Readings data. This setting cannot be modified by the user.
Pressure Unit	Select the units in which to display the sensor reading values (inches WC, Pa, m/s, kPa or FPM).
Automatically Delete Trend Log Data When a Device is Disconnected	If you would like trend log data to be automatically deleted when a device is disconnected, select this check box. The box is checked by default.
Warn Me Before Deleting Data	If you wish to be notified when Trend Log data is about to be deleted, select this check box. The box is unchecked by default.

3. After making your selections, touch the **Save** button to save the Trend Log settings. They will not be saved if you leave this screen without saving.

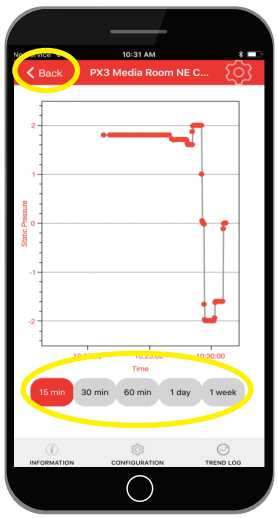
4. Touch the **Back Arrow** button at the left side of the title bar to return to the Trend Log tab. To modify your view of the Trend Log data, use your thumb and index finger to zoom in and out.

5. Touch one of the Time Period buttons below the graph to see the most recent data.

   15 min = the most recent 15 minutes' worth of data.
   30 min = the most recent 30 minutes' worth of data.
   60 min = the most recent 60 minutes' worth of data.
   1 day = the most recent 24 hours' worth of data.
   1 week = the most recent 7 days' worth of data.

   Note: Depending on the Trend Log settings and how much time a device has been connected to the app, the full scale may not be populated with data.

6. Touch the **Back** button to disconnect from the device.



Trend Log Tab

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Connected Device Screen (cont.)

7. In the Confirm Disconnection dialog, choose **Cancel**.
8. A new dialog appears, stating that the app will remain connected to the device. Touch **OK**.
9. You are returned to the Trend Log screen. Touch the **Back** button again to disconnect from the device.
10. This time, touch **OK** to complete the disconnection.
11. 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 **OK** to delete the data and continue.
12. The app returns to the Detected Devices screen.

Custom Configurations Screen

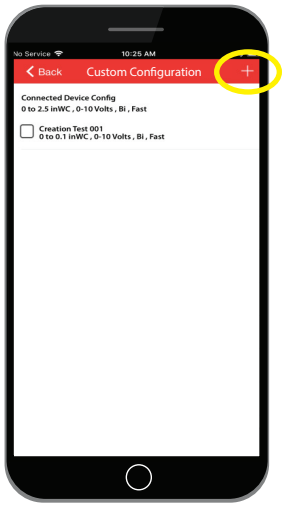
Create a Custom Configuration

1. Bring up the Product Menu by touching the left edge of the screen and swiping right or using the Product Menu icon on the left-hand side of the title bar.
2. From the Product Menu, select **Custom Configurations**. This opens the Custom Configurations screen, which shows all custom configurations saved on the mobile device. You should see the configuration you saved in the "Configure a Device" section of this document.
3. Touch the **Plus** sign on the right side of the title bar. This is the Add button which opens the Configuration Detail screen.
4. From the Configuration Detail screen, adjust any of the settings you would like to save for future use. The settings parameters available for customization are listed below.

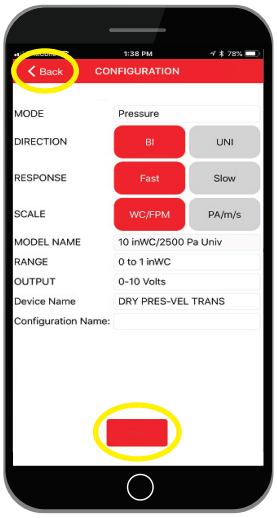
Setting	Description
Mode	Choose between Pressure and Velocity measurement options.
Direction	Select either the Bidirectional (BI) or Unidirectional (UNI) button.
Response	Select either the Fast or Slow button. In Fast mode, a change in pressure results in a change in output within 2 seconds. In Slow mode, a change in pressure results in a change in output within 20 seconds.
Scale	Select either the WC/FPM or Pa/m/s button, depending on the units in which you wish to display the sensor reading values.
Model Name	The Model Name is selectable, allowing you to select the Range values according to the sensor model to which you wish to apply the settings.
Range	Select the Range settings you wish to apply.
Output	Select the desired Output option: 0-5 Volts, 0-10 Volts or 4-20 mA.
Configuration Name	Enter a unique Configuration Name to identify this set of configuration settings.

Note that there is no Update Password link or Device Name entry on the Configuration Detail screen. This is because these parameters are only available for connected devices, and are not saved in custom configurations.

5. Touch the **Save** button. If you have forgotten to enter a Configuration Name, you will receive an alert asking you to do so.
6. Touch the **Back** button.
7. Your new custom configuration now appears in the list on the Custom Configuration screen.



Custom Configurations Screen



Custom Detail Screen

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Custom Configurations Screen (cont.)

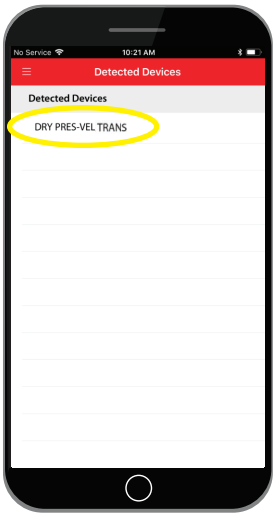
Using Custom Configurations

Once you build a list of custom configurations, as described above, you can quickly select any configuration and upload it to a connected device. To do this, follow the steps below.

1. Bring up the Product Menu by touching the left edge of the screen and swiping right or using the Product Menu icon on the left-hand side of the title bar.
2. From the Product Menu, select **Detect Devices**. This opens the Detected Devices screen, which displays a list of all devices detected by the app.

Product Menu

3. Touch the device you wish to access from the list shown on the screen and enter its corresponding password. You will be directed to the Device Information screen.



Detected Devices Screen

4. Select the Configuration tab to view the list of available custom configurations.

Device Information Screen

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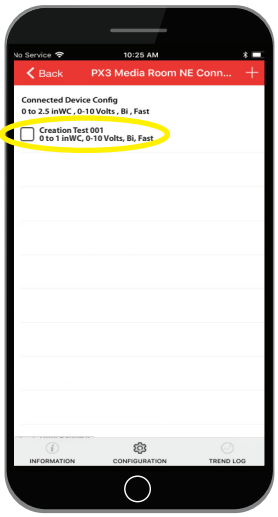
Custom Configurations Screen (cont.)

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

   Note: Do not select the "Connected Device Config" entry on the list, as this will write the existing device configuration back to the device, if no changes are made to the settings before uploading.

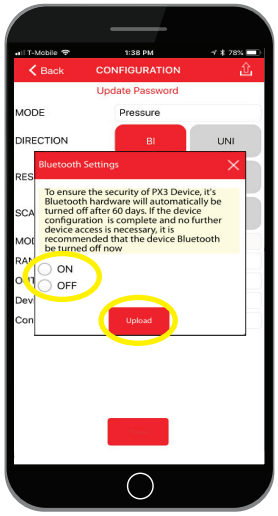


Configuration Tab

6. Touch the **Upload** icon on the right side of the title bar to upload the configuration to the connected device.

Custom Configuration Screen

7. The Bluetooth Settings dialog will open. Select the **ON** or **OFF** option, then touch **Upload**.



Bluetooth Settings Dialog

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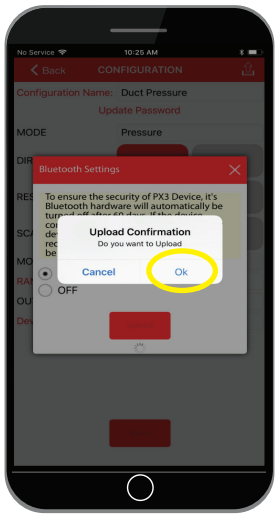
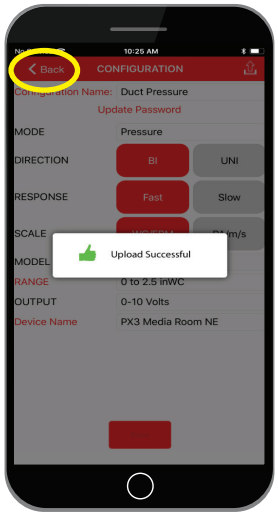
Custom Configurations Screen (cont.)

8. A confirmation dialog appears. Select **OK** 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.



UploadConfirmation Dialog

9. Touch the **Back** button to clear the upload status notification.
10. Touch the **Back** button again to exit the Custom Configuration screen and return to the Configuration tab.

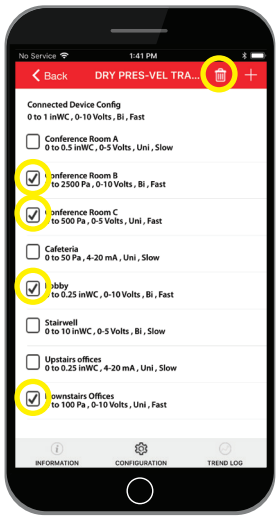


Upload Successful Message

Deleting Custom Configurations

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

1. From the list of available custom configurations, touch the check box to the left of each configuration you wish to delete from the list.
2. A check mark appears in each check box, indicating that the configuration has been selected.
3. A trash can shaped icon appears in the red bar at the top of the screen. This is the Delete button.
4. Once the check marks appear, touch the **Delete** button.



Configuration Tab

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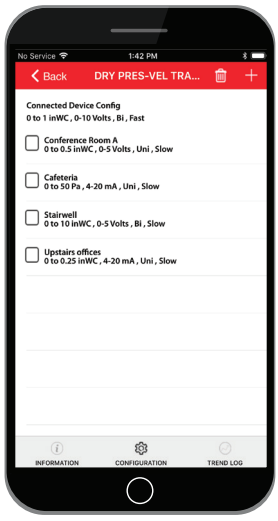
Custom Configurations Screen (cont.)

5. The selected configurations disappear from the list.



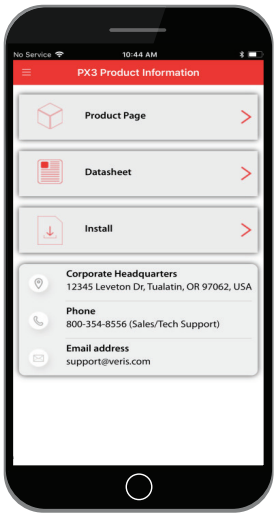
Configuration Tab

Product Information Screen

For Further Information

1. Bring up the Product Menu by touching the left edge of the screen and swiping right or use the Product Menu icon on the left-hand side of the title bar.
2. Select **Product Information**. Touch any of the items on this screen for additional information.

Option	Description
Product Page	Link to the sensor's product page on the Veris website.
Datasheet	Link to the latest sensor datasheet on the Veris website.
Install	Link to the latest sensor installation guide 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.



Product Information Screen

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Appendix A: Device Details

Device Default Configurations

The Differential Pressure/Air Velocity Transducer ships from the factory with the following configuration:

- All DIP switches set to the OFF position.
- The Range switch set to position 3.
- The User Password set to "0000".
- A unique Factory Password, printed on the product label, which allows access to the device in the case where the User Password has been forgotten.
- A unique Serial Number.
- A unique MAC Address used by Bluetooth Low Energy.
- A Manufacturing Date Code, indicating when the transducer was manufactured.
  - First two digits are the year of manufacture, last two digits are the week of manufacture.
  Example: 1834 = manufactured in week 34 of 2018.
- A user changeable device name, which defaults to, "DRY PRES-VEL TRANS". The device name can be any alpha-numeric string up to 19 characters.

Security Features

The Differential Pressure/Air Velocity Transducer offers the following security features:

- Bluetooth Low Energy hardware is enabled by default, and will remain active for 60 days of operation. After that time, the Bluetooth Low Energy hardware is disabled.
  - When the device is not powered, this timer will not be active.
  - The timer is only active while the device is powered.
  - If the device were powered on for 1 day, then powered off, the device would still have 59 days of operation after it was powered back on, regardless of how much time has passed, while not powered.
- Password (4 numeric digits) required to access device settings.
- On first connection (User Password = "0000"), the User Password must be changed from "0000" in order to continue with device settings access.
- When Bluetooth Low Energy is disabled, it can be re-enabled by toggling DIP switch 7 while the device is powered.
  - If the switches can only be accessed while the device is not powered: either change any one of the other DIP switches; or change DIP switch 7 to ON, then apply power for about 10 seconds before powering down, then change DIP switch 7 to OFF, then reapply power.
- When settings are uploaded to the device from the app, if the Bluetooth Low Energy is selected to be ON, the Bluetooth Low Energy time remaining will be reset to 30 days.
- The App and PX3 Device implement Bluetooth Low Energy Just Works connection using Security Mode 2. This provides the most secure connection available without full device pairing. Despite this level of security, it is possible using a localized Bluetooth Low Energy tool, to read data sent between the mobile app and the PX3 Device during the connection phase and read the password. Since the Bluetooth Low Energy Just Works connection could potentially be exploited, it is highly recommended that the PX3 Device Bluetooth be disabled after configuration to ensure security of the configuration settings.

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Appendix B: Application Screens & Dialogs

Users will encounter a variety of screens and dialogs while using the Veris Sensors app, as described below.

List of Screens

Screen	Description
Welcome Screen	Displays the Veris logo while the app starts up.
License Agreement Screen	Displays the standard license agreement from the Veris website. Allows the user to agree or decline. If the user chooses to decline, the app will exit. This screen is not displayed again after the user accepts the agreement, unless a new version of app has been installed.
Sensor Selection Screen	Displays the various sensors that can be configured with the app along with the app version information. Once a sensor type has been selected, all other screens will pertain only to that type of sensor. The app presently only supports the Dry Pressure Velocity Transducer, so only Dry Pressure Velocity Transducer devices are displayed in the Detected Devices screen. Custom Configurations displayed and created will only be of the Dry Pressure Velocity Transducer type. Future versions of the app may support additional sensor types.
Custom Configurations Screen	Displays a list of saved custom configurations (if any). Allows the user to Add (+) a new configuration. The user can also select one or more configurations to delete by using the trash can icon.
Detected Devices Screen	Displays a dynamic list of devices detected. The user may initiate a connection with one of the devices by touching its Device Name in the list of detected devices. The user may also initiate a new search for devices by touching near the top of the list, then dragging straight down until a circle appears, then releasing the screen.
Connected Device Screen	The Connected Device screen includes three tabs (Information, Configuration and Trend Log) to view various aspects of device operation. The tab displayed can be selected from the top (Android) or bottom (iOS) of the screen.
Information Tab	Displays general information about the connected device, including the present pressure or velocity reading. Allows the user to reset the zero point (Zero Adjust). Displays the Device Range (full scale range of the model), the Device Serial Number, the Device Manufacturing Date Code, the Device Name, the MAC Address, the Firmware Revisions, the Pressure Sensor Type (used by Product Support), and the Date Config Last Saved (or, the date a configuration was last uploaded to the device). It also shows the Diagnostic Information of the Device Input Voltage, and the Device PCBA Temperature.
Configuration Tab	Displays a list of available saved custom configurations, at the top of which appears the "Connected Device Config", which allow the user to view and change the connected device's settings. Each configuration provides a brief summary of its settings.
Trend Log Tab	Displays a graph of the connected device's pressure or velocity history. The depth of the history depends on the Trend Log Settings. There are five buttons at the bottom of this screen which allow the scale of the displayed data to be adjusted quickly (15 minutes, 30 minutes, 60 minutes, 1 day, 1 week). The user may zoom in and out in the graph using touch gestures.
Trend Log Settings Screen	Allows the user to change the Trend Log settings for the app. This includes the Number of Devices the app may track, the Time Between Readings (in seconds), the Pressure Unit to use in the graph, whether to automatically delete trend log data when a device is disconnected, and whether to warn before deleting data. Additionally, two calculated parameters are displayed: the number of Data Points Per Device, and the Maximum Recording Time. The Save button allows changes to be saved. Leaving the screen without saving will discard the trend log settings changes without notifying the user.
Edit Configuration Screen	Displays all the settings that the user can change to configure a device. When a device is connected, the Update Password and Device Name settings are made available. When no device is connected, the Update Password and Device Name settings are not available. The Upload button is visible only if a device is connected. The Save button is always available. When a device is connected, the Model Name field is not changeable, and indicates the model of the connected device in terms of its maximum range. When a device is not connected, the Model Name field may be set by the user. Settings with only two possible states (Direction, Response, Scale) are displayed as two buttons next to each other – selecting one button deselects the other. Settings with more than two options, or which may allow future options, (Mode, Model Name, Range, Output) are displayed in list selection boxes. The Device Name and Configuration Name fields allow alphanumeric strings to be entered.
Product Information Screen	Provides links to the product web page, data sheet and installation guide, as well as Veris contact information including a map link for the Veris HQ location, a phone dialer link for the Veris 800 number, and an email link for customer support.

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Appendix B: Application Screens & Dialogs (cont.)

List of Dialogs

Dialog	Description
Password Entry Dialog	Allows the user to enter a password to gain access to the device.
Invalid Password Dialog	Informs the user that the created password does not meet the validation criteria.
Create Password Dialog	Allows the user to create a password for the selected device. Passwords must be exactly four numeric digits, not be in sequence, not be all the same number, and both passwords entered must match.
Password Mismatch Dialog	Informs the user that the two passwords entered do not match.
Bluetooth Settings Dialog	After selecting Upload, this dialog notifies the user of device BLE timer, and allows the user to either disable BLE now (OFF), or leave BLE on (ON). Selecting Upload initiates the actual download process.
Warning Dialogs	These dialogs notify the user of an important event and typically allow only one or two actions (usually "OK" or "Cancel"). Some typical notices include, "Device Connection Lost", "Do you want to continue without saving the Configuration?", "Remaining connected to device", "Are you sure you want to delete Trend Log data?".
Confirm Disconnection Dialog	Notifies the user that they are about to disconnect from the device, and allows them to remain connected or continue disconnecting.

Appendix C: Support

Device Compatibility

The Veris Sensors App is compatible with the following operating systems:

- iOS version 10.3 and higher
- Android version 6.0 and higher

Note: Compatibility with the Huawei Nexus 6P and the LG Nexus 5X Android smartphone models is being addressed. These models do not presently detect or connect with the Differential Pressure/Air Velocity Transducer.

Due to wide variance of Android hardware and software, the app has not been tested on every combination of hardware and software. Please help us expand the support of platforms by reporting any errors you might encounter. The most common problems observed are not detecting devices, or not connecting to devices. Go to the Veris Sensors App product page on the Google Play store to leave your feedback.

Technical Support Contact Information

For sensor information, including datasheet and installation guide, see the Veris website at the following URL: www.veris.com/Category/Pressure/Differential.aspx

Veris technical support is available by phone at 800-354-8556 (U.S. and Canada) or +1-503-598-4564 (international) or by email at support@veris.com.

Privacy Policy

For the latest copy of the Veris Sensors Mobile Application Privacy Policy, see the Veris website at the following URL: www.veris.com/MobilePrivacyPolicy.aspx

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