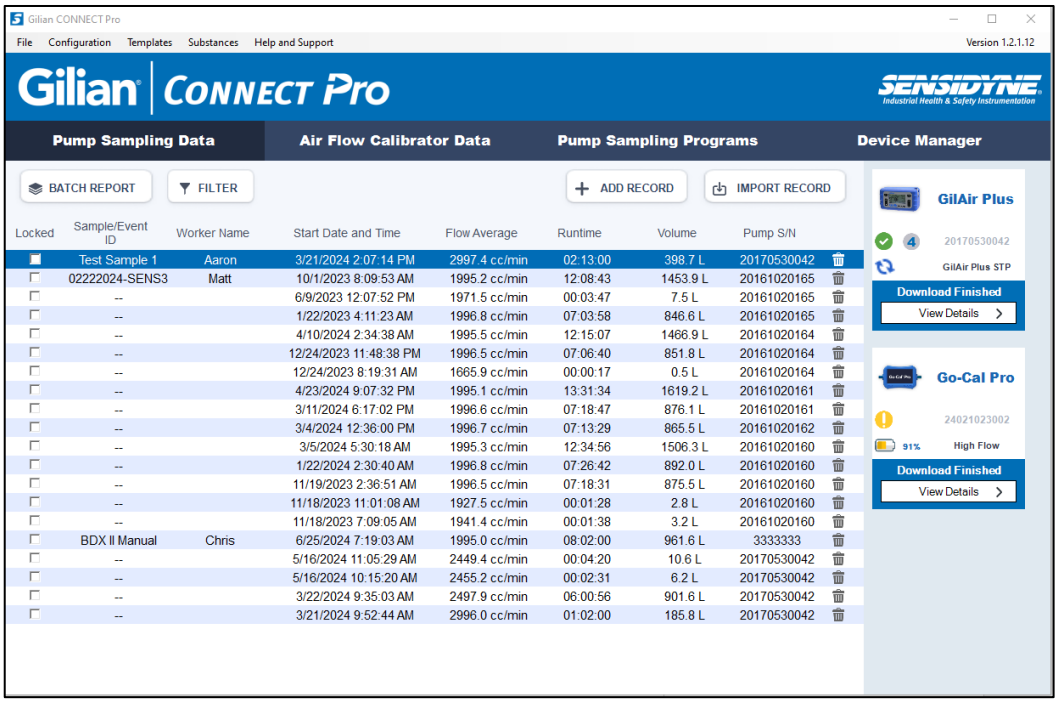
Gilian® | CONNECT Pro

Pump and Calibration Data Management Software



User Manual

SENSIDYNE®
Industrial Health & Safety Instrumentation

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Sensidyne Document No. 360-0268-01 (Rev. C)

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Overview

Introduction

The all-new Gilian CONNECT Pro software is designed to save you time and help you do your job more efficiently. This PC Application provides a computer interface to help you manage and configure Gilian air sampling pumps and calibrators, and to manage data collected by the pump and associated information with the sampling event.

This User Manual will get you familiar with the capabilities of this software in just a few minutes.

Benefits and Features

The Gilian CONNECT Pro software allows you to:

- Configure pump and calibrator operating parameters
- Easily replicate settings across many pumps
- Create pump runtime programs
- Download and/or manually enter and archive sampling data from pumps
- Download and/or manually enter and archive calibration data from calibrator
- Link calibrator information to pump sampling events
- Enter information on worker and/or sampling areas
- Enter in sample results from laboratory and compare to exposure limits
- Create customized event templates for quicker data entry
- Search and filter sampling and calibration history
- Generate sampling reports
- Generate calibration reports
- Generate batch reports

Pump Compatibility

	GilAir Plus Basic	GilAir Plus Datalogger	GilAir Plus STP
View Serial Number	✓	✓	✓
View Firmware Version **(GilAir Plus Firmware 2.4.0 or higher)**	✓	✓	✓
Save pump owner details and notes in the database	✓	✓	✓
Download Runtime Data		✓	✓
Generate Sample Event Reports		✓	✓
Export Sample Event details for analysis in Excel		✓	✓
Create Pump Programs		✓	✓
Configure Pump Options		✓	✓
Copy configuration from one pump to another		✓	✓
View run-time graph of Flow rate and back pressure		✓	✓
View run-time graph of ambient pressure and temperature			✓
Automatic STP-compensated concentration and volume			✓

Calibrator Compatibility

	Gilibrator 3	Go-Cal Pro
View Serial Number	✓	✓
View Firmware Version		✓
Save calibrator owner details and notes in the database		✓
Download Calibration Data	✓	✓
Generate Calibration Reports	✓	✓
Export Calibration Event details for analysis in Excel	✓	✓
Configure Calibrator Options		✓
View run-time graph of flow rate during calibration sample set	✓	✓
STP-compensated flow rate	✓	✓

Installation

Minimum Requirements

Computer

Use of this software requires a computer with the following minimum specifications:

Operating System	Microsoft Windows Operating System (10 or higher)
Installed Software	Web Browser
Display Resolution	1024x600
USB port	Required for communication with Instruments
Internet Connection	Required to enable Software Installation and updates

Instruments

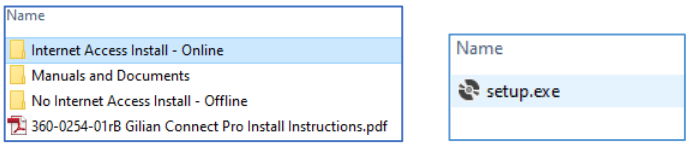
The following Instrument Firmware is required for use with this software:

GilAir Plus Pump	2.4.0 or Higher
GilAir Plus Docking Station	3.3 or Higher
Go-Cal Pro Calibrator	1.0.4 or higher

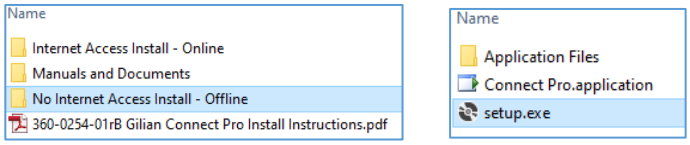
Installation Procedure

To install Gilian CONNECT Pro, insert the USB Flash Drive that came with the Instrument into the computer's USB port.

Internet Access – If internet access is available,
double click the "Internet Access Install - Online" folder, then the "set up.exe" file.



No Internet Access – If an internet connection is not available,
double click the "No Internet Access Install - Offline" folder, then the "setup.exe" file.



NOTE: The offline process will install CONNECT Pro, but automatic updates will not be possible. Contact Sensidyne to receive updates to the software. When possible, the online install is the preferred setup and will provide a path for automatic updates upon starting the application.

Remain logged-in to your regular Windows account.

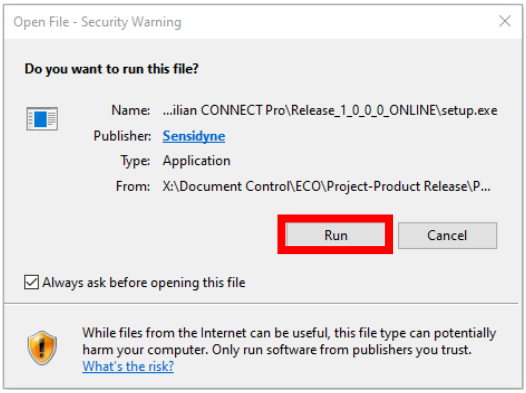
The application must be installed separately under the user or administrator account of each person who will use the application.

The installer will request administrator credentials if necessary.

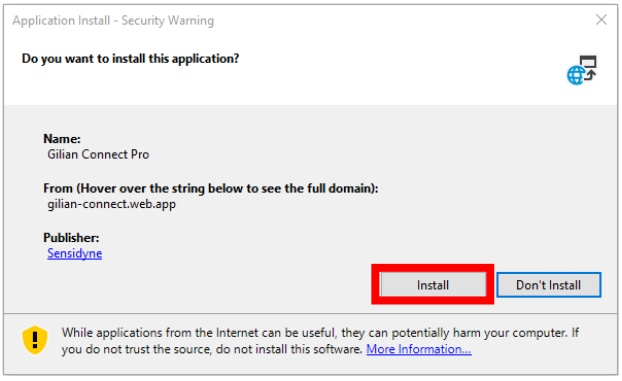
Application data (database data) will be shared between users.

For help, additional information, or to obtain the latest version of the software contact Sensidyne by email SoftwareSupport@sensidyne.com.

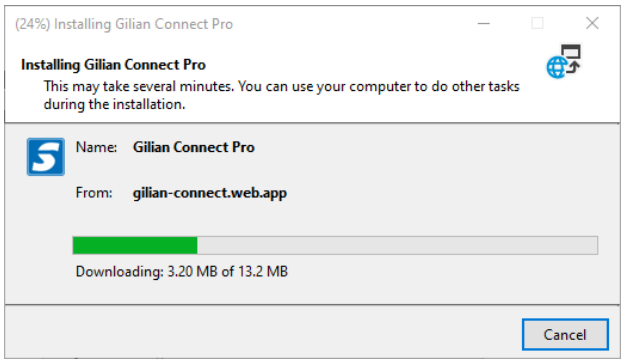
Installation Windows



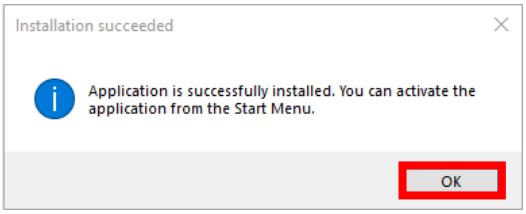
Application Installer window, Click Run button to begin.



Application Install window, click on Install button.



The installation process may take several minutes.

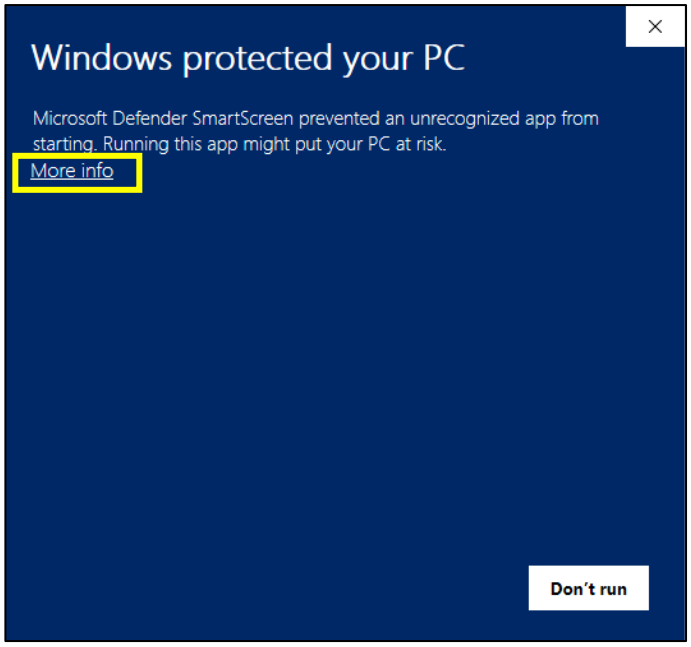


Click OK when installation is completed.

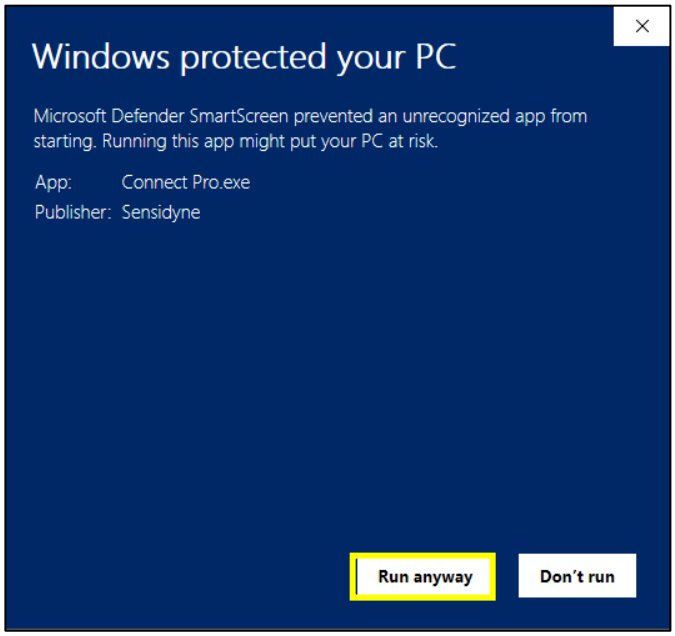
Opening Gilian Connect Pro

Initiating Software Application

Once the software application has been installed, you may open it from your Start Menu or from the pinned icon.



A window may appear that states, “Windows protected your PC”. This is due to it not recognizing our application. Select “More Info”

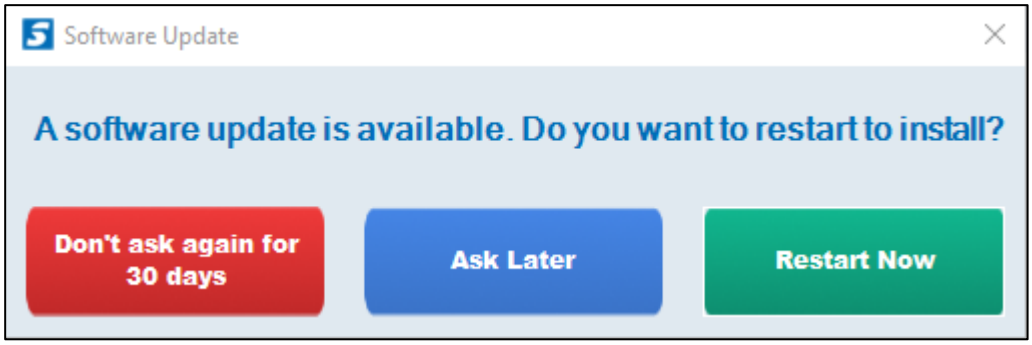


A new message will appear that allows you to “Run Anyway”. Select this option to

continue.

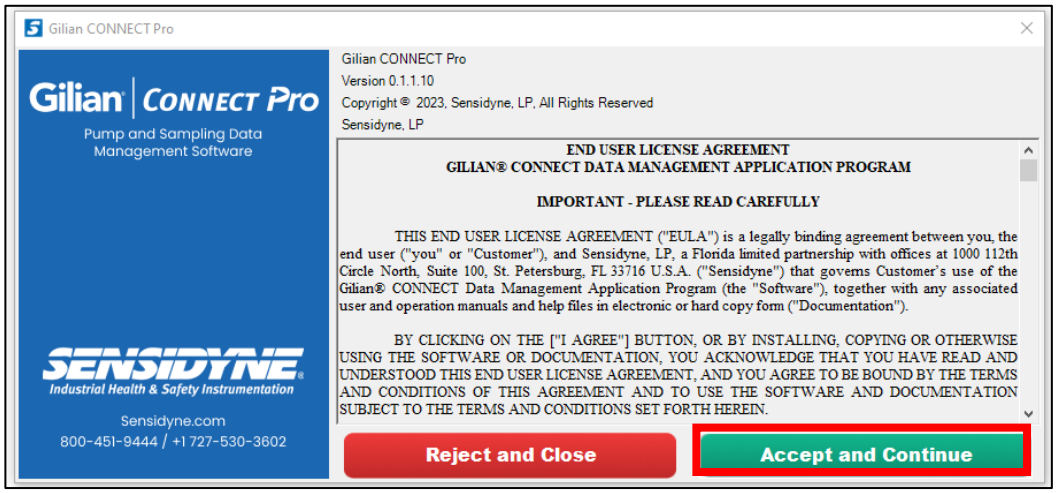
Update Available

If your computer is connected to the internet, it will search for an update.



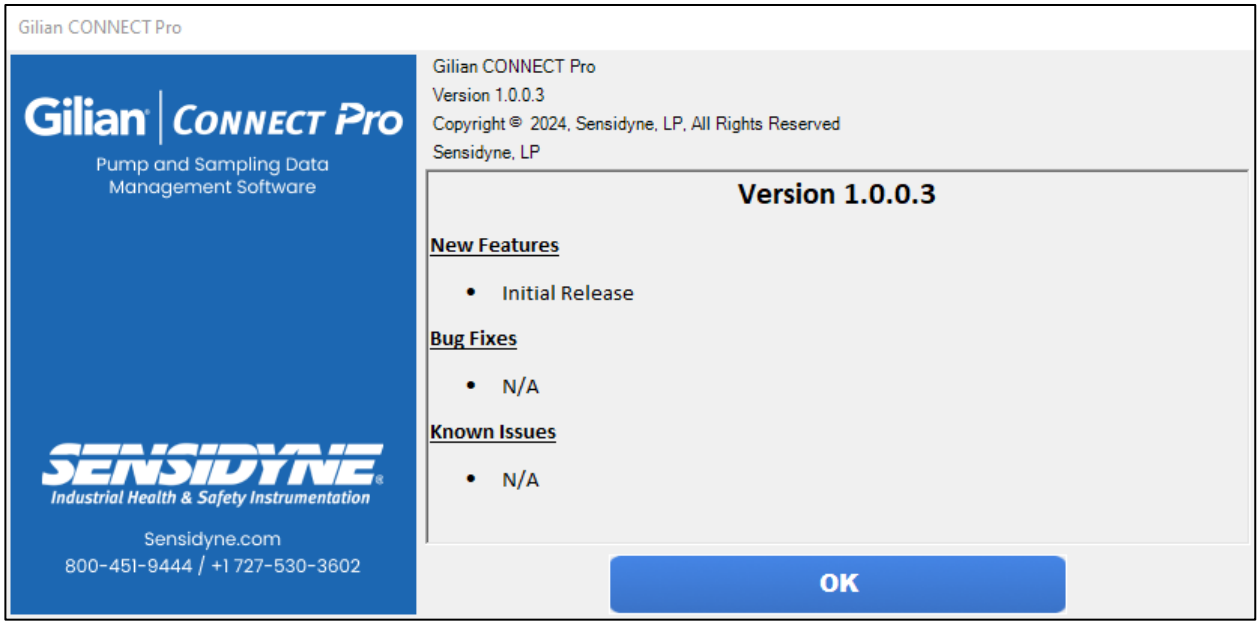
If an Update is available, a window will pop-up asking if you would like to download and utilize the newer version. Select “Restart Now” to update application. If program does not automatically restart after update, you may open it from your Start Menu.

Note – downloading a newer version will not impact the data already stored in your database.



An End User License Agreement with standard terms and conditions will appear. Upon review and approval of the terms, select the “Accept and Continue” button to load and open the application.

The application will load and open to the main screen.

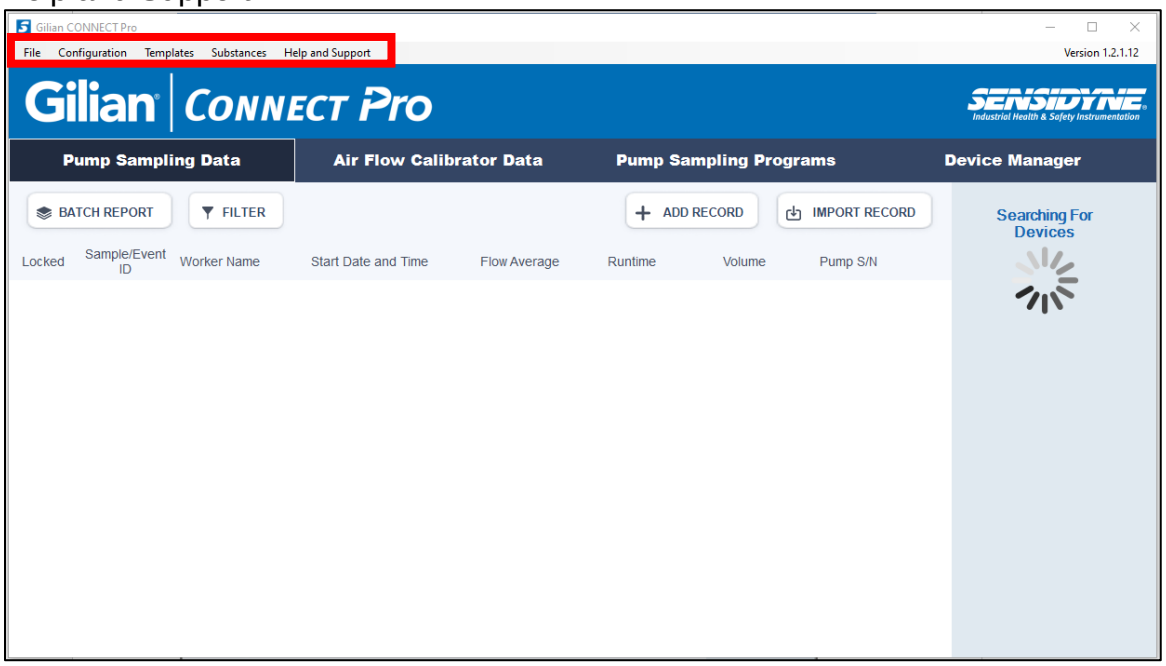


A window will appear that will state the improvements and additions added since the last version was released.

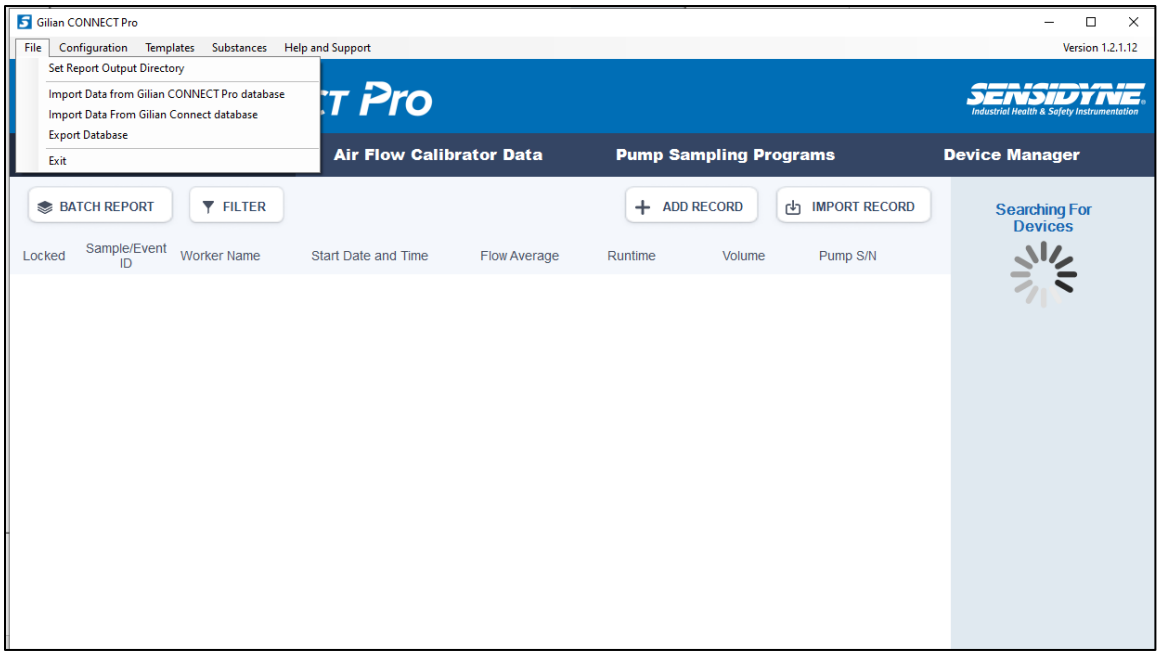
Main Screen

Menu Items

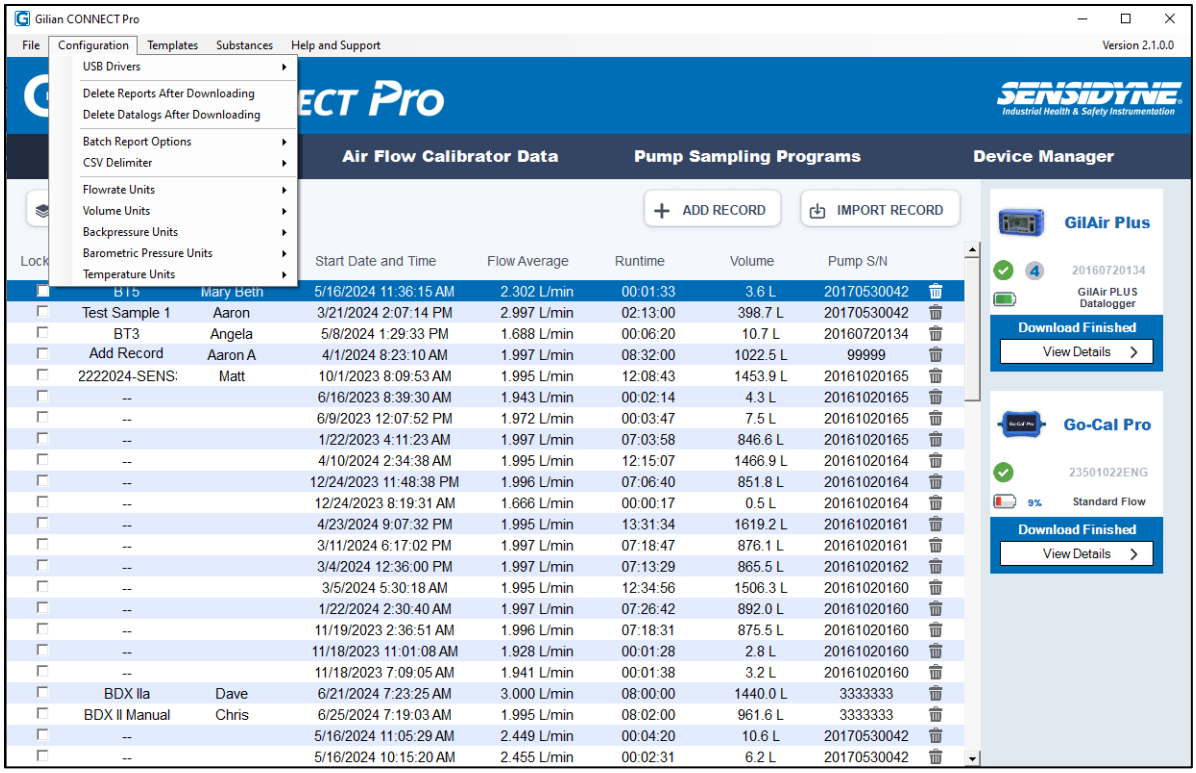
The main screen has five Menu Items; File, Configuration, Templates, Substances, and Help and Support.



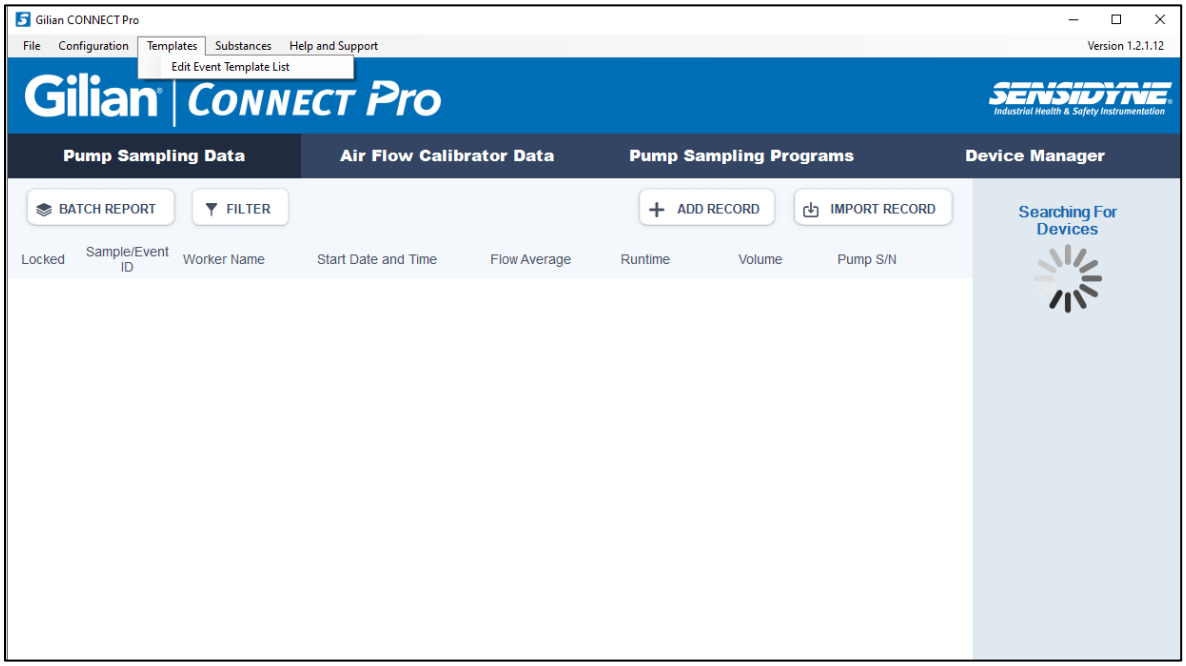
Each menu item has dropdown options available when selected.



The File menu dropdown options include; Set Report Output Directory, Import data from database, Export Database, and Exit. See Exporting and Importing Databases Section for more information.

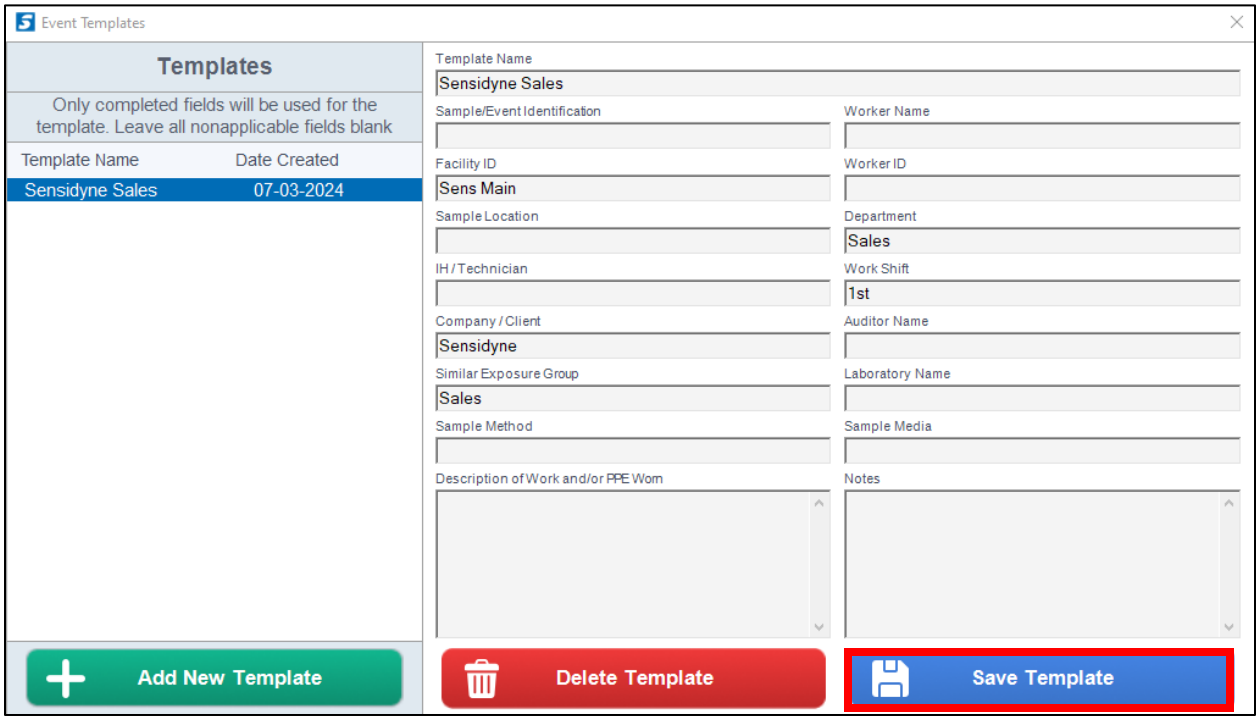


The Configuration menu dropdown allows for installation of USB drivers, options to clear data and stored reports from your devices after they download, CSV delimiter options (Comma or Tab), and options to select your preferred units of measure.

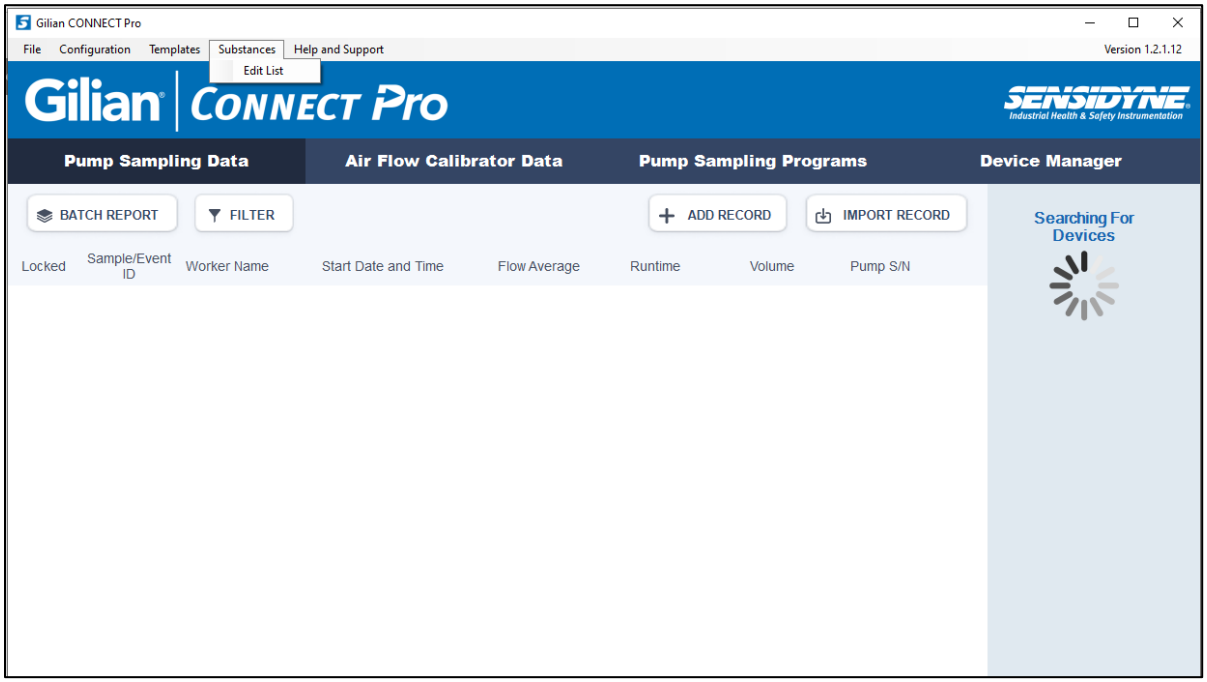


The Templates menu dropdown allows for edits to the event template list. Templates are customized event information that are pre-filled out for quicker and consistent data entry.

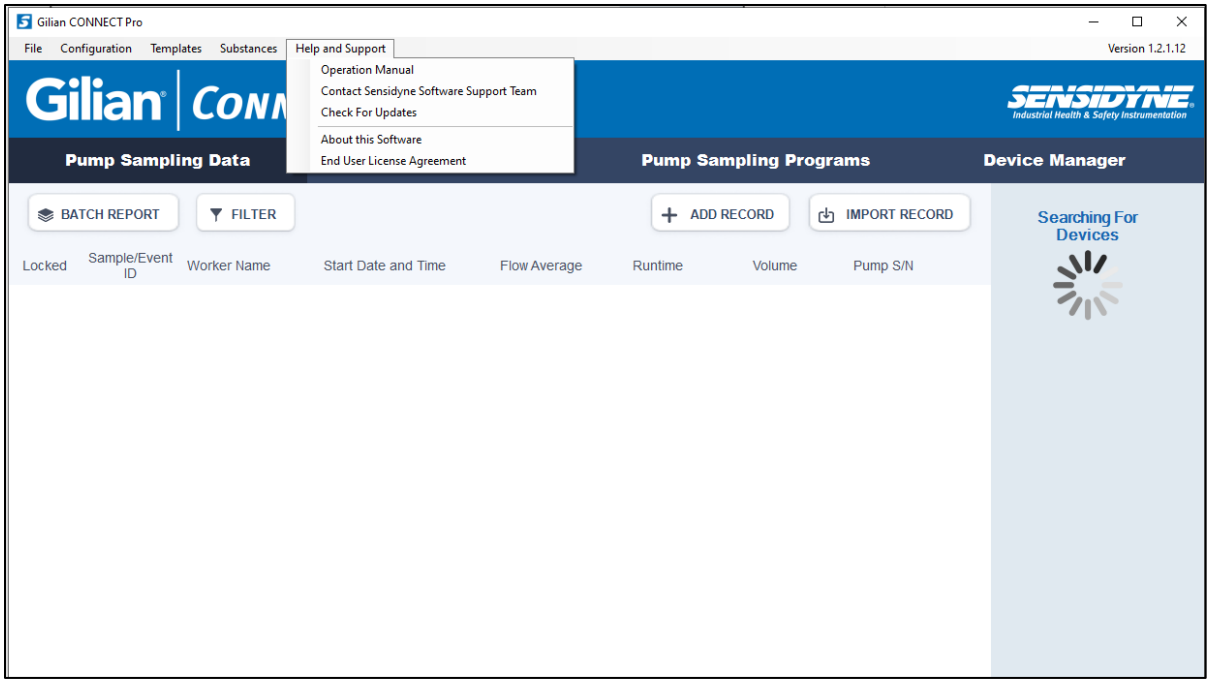
Select Edit Event Template list, and a window will open to edit templates or create a new template from the fillable form. Fill in the fields that will be commonly used for that template and select the Save Template button.



See section Editing Reports for further information on editing Templates.



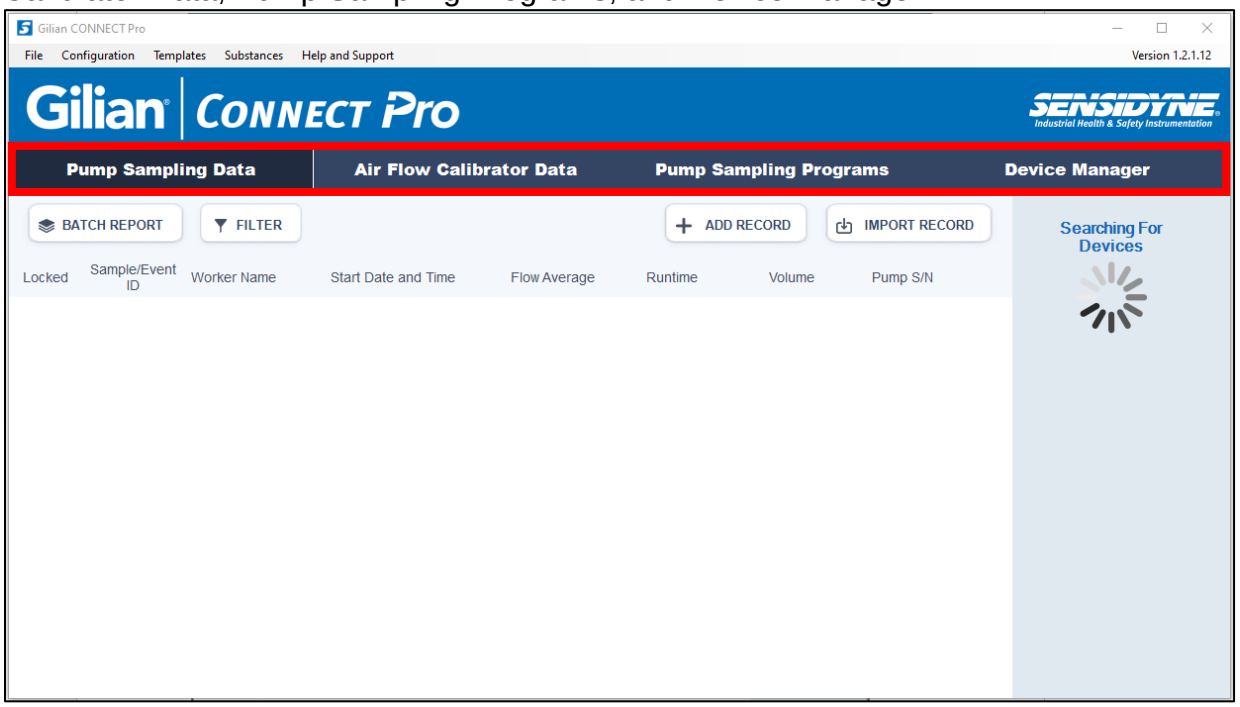
The Substance menu dropdown option will allow you to edit and add target substances to your database, and allow you to enter in various applicable exposure limits. See section on Target Substances for further information on editing.



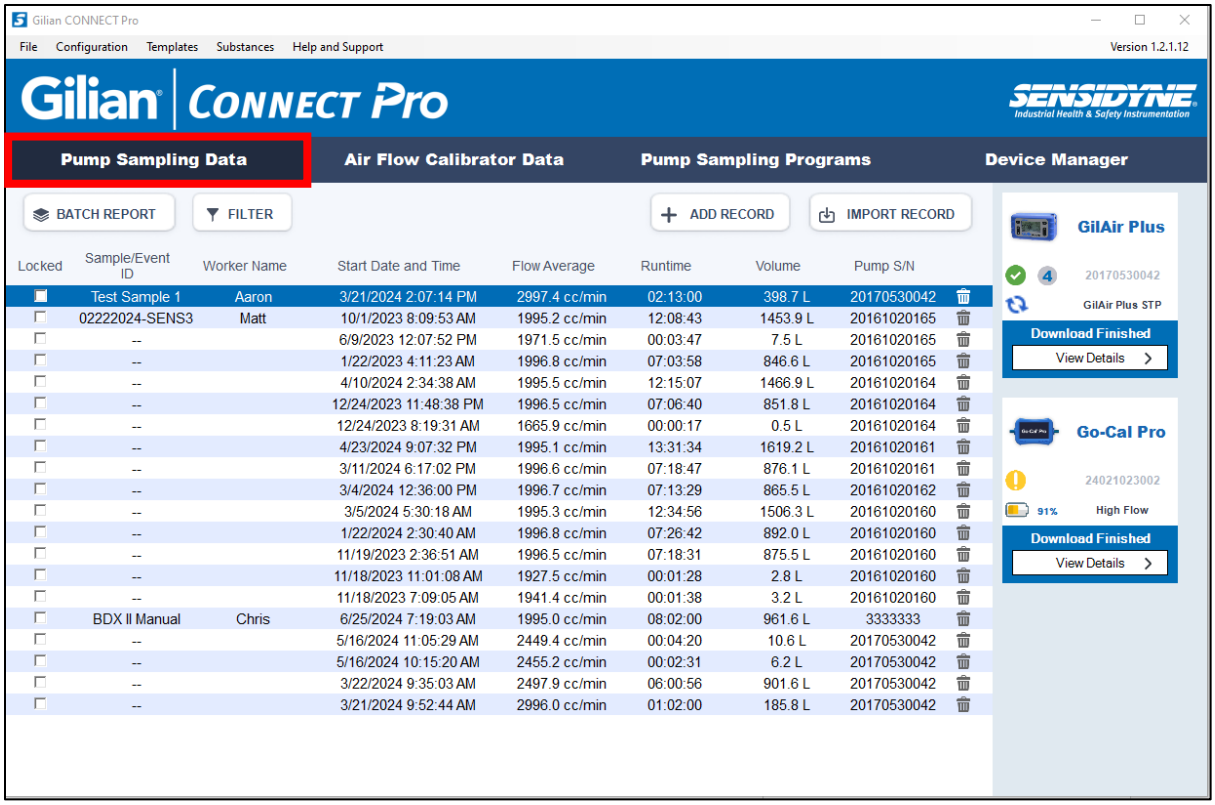
The Help and Support menu dropdown will provide ability to contact Sensidyne, ability to check for software application update, ability to view history of version updates, and ability to review the End User License Agreement.

Function Tabs

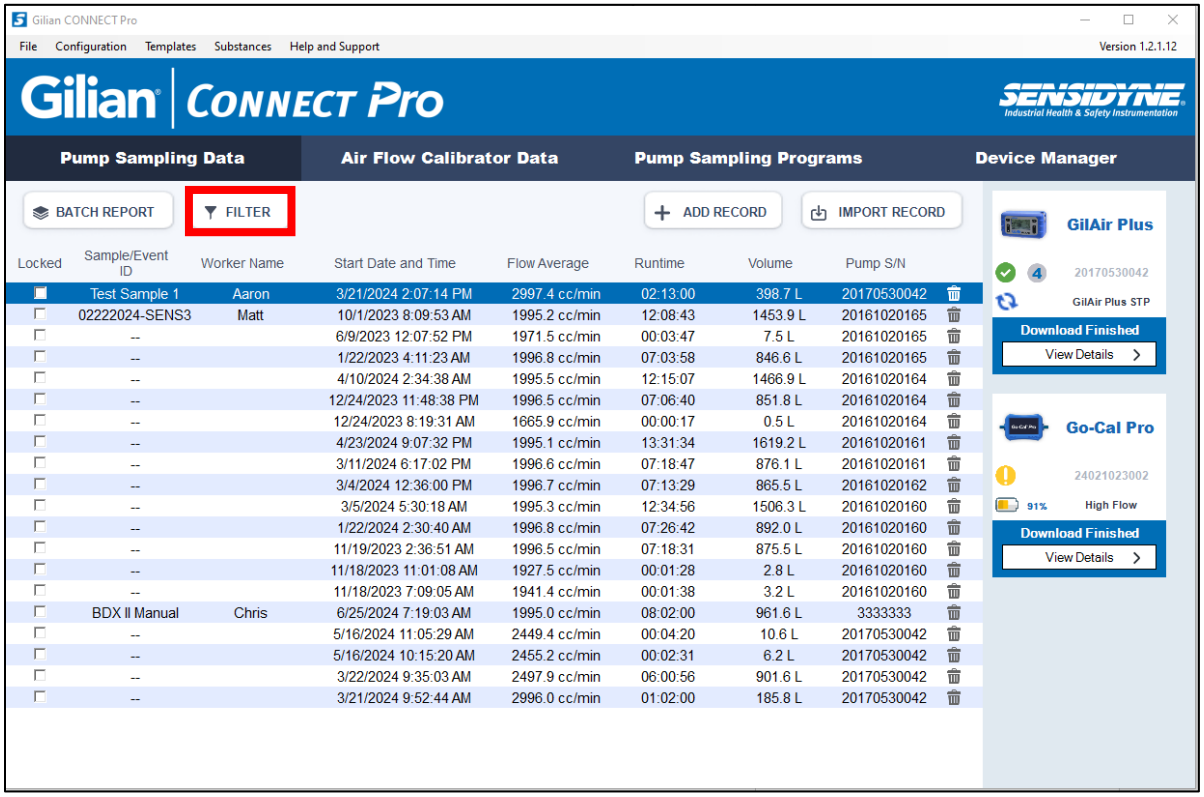
There are four Function tabs on the main page; Pump Sampling Data, Air Flow Calibrator Data, Pump Sampling Programs, and Device Manager.



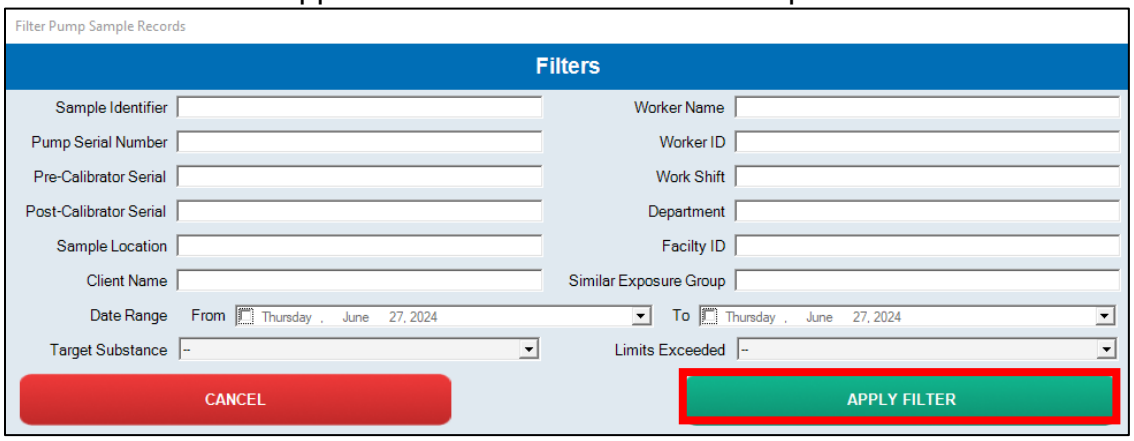
The Pump Sampling Data tab displays the downloaded pump data as time and date stamped sampling events. Each event can be opened by double clicking the highlighted line. This will allow for additional event information to be entered and to link the pump sampling event to calibration events.



Events can be sorted by selecting any of the column headers, or by using the Filter button to query based on a sampling event field.

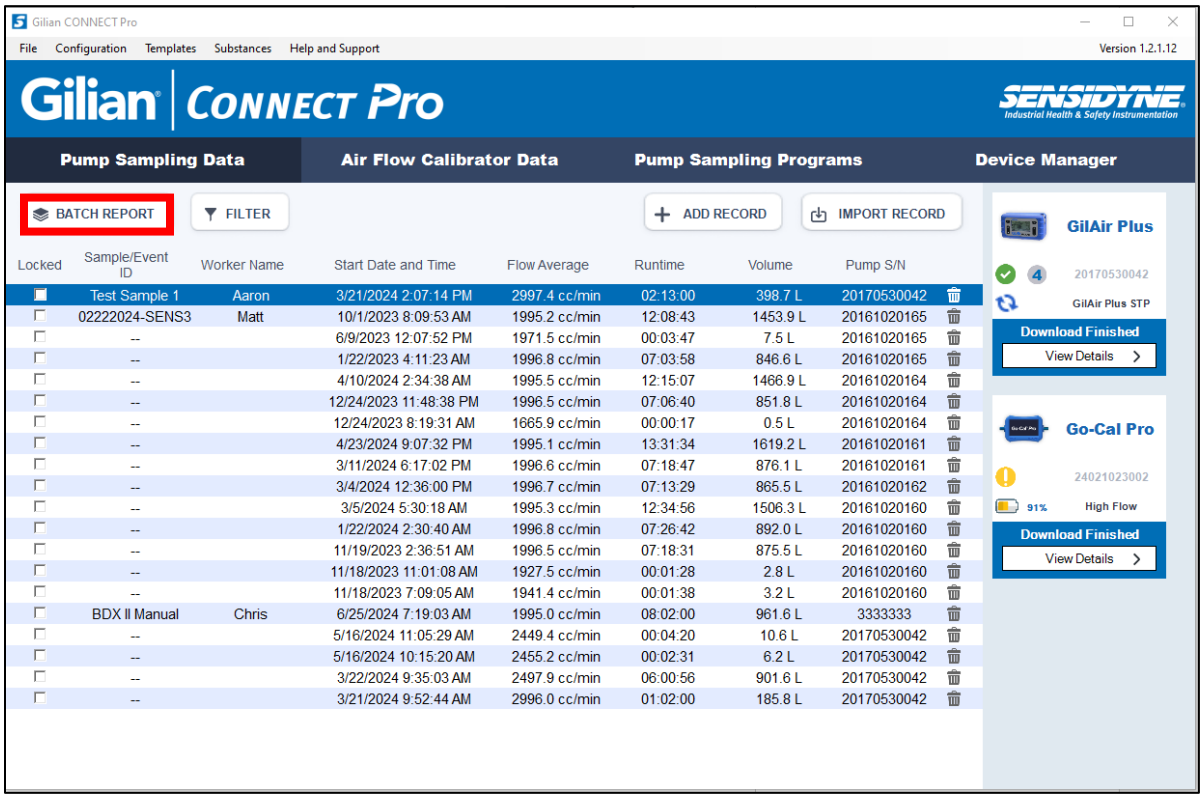


A Filter window will appear with data fields that can be queried.

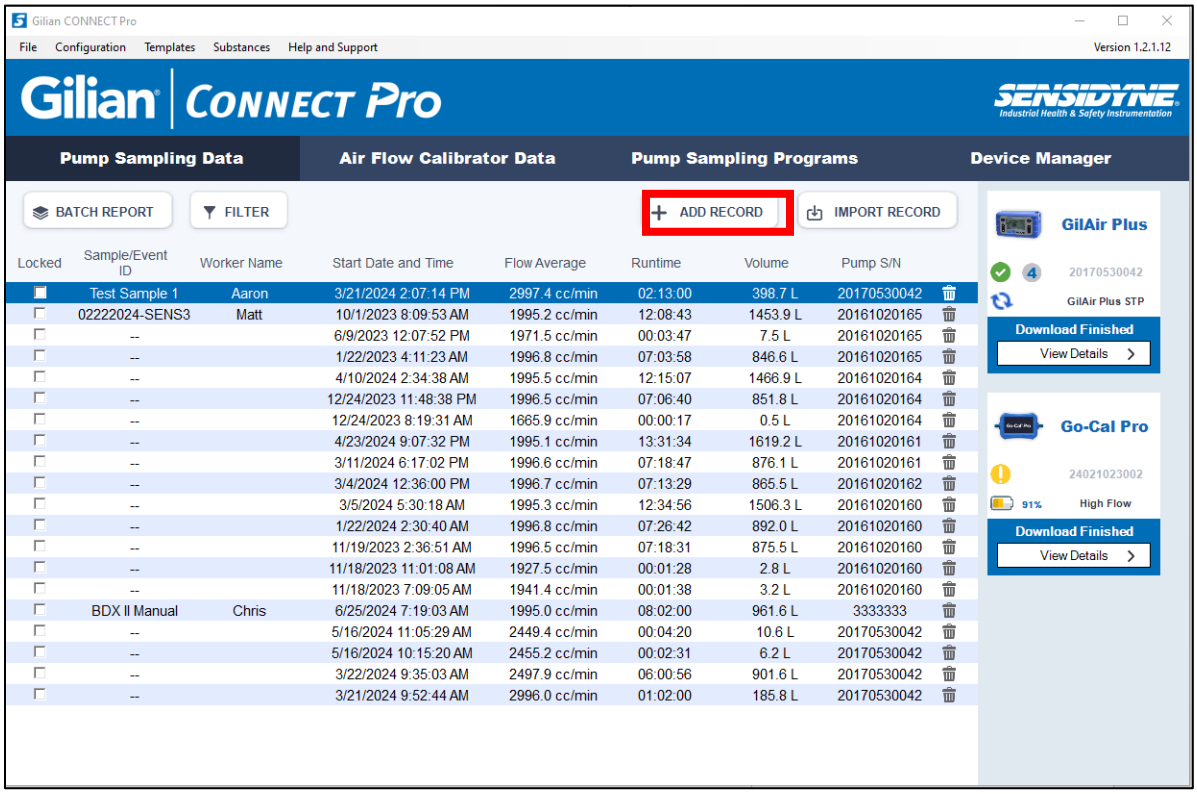


Enter in one or more fields, and click the Apply Filter button. The event(s) that meet the parameters of the filter will be displayed within the tab.

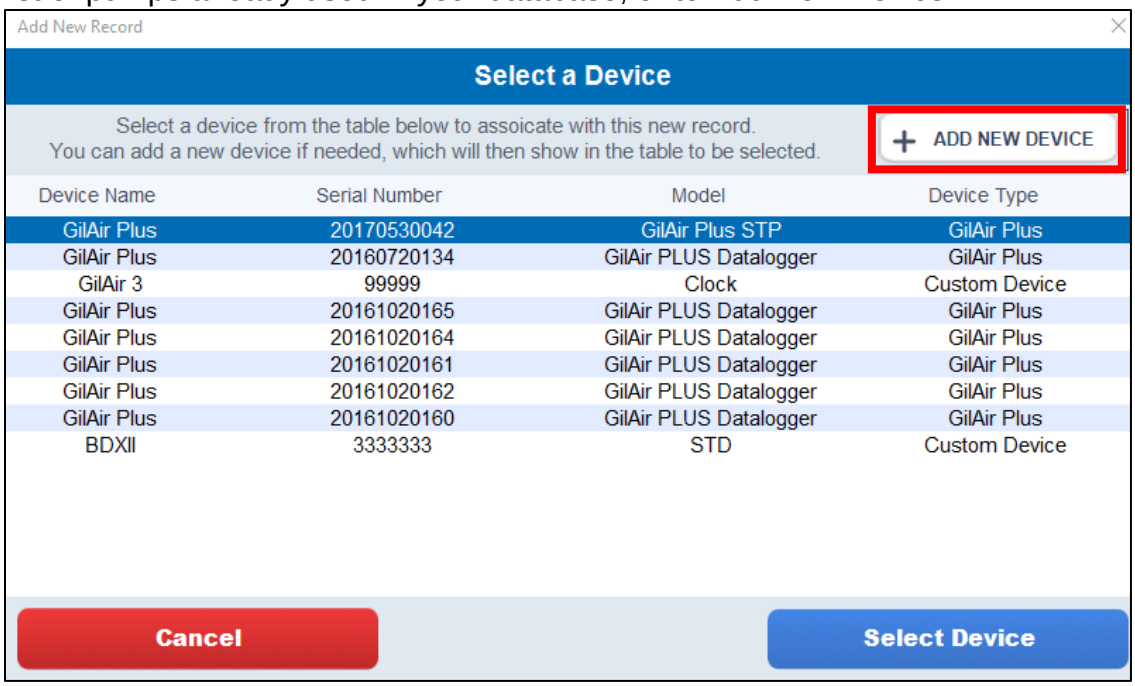
A Batch report may also be used to filter and export a selected number of events to a user selectable folder. See Section on Batch Reporting for more information.



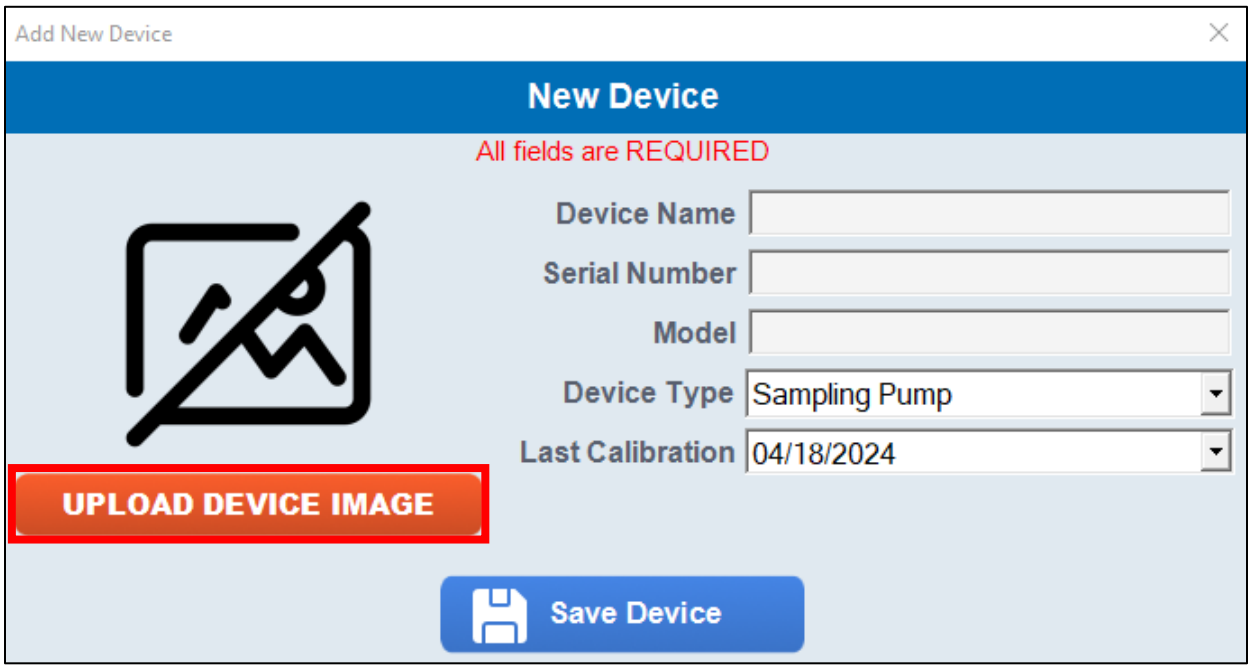
Air Sampling Events may also be manually entered by selecting the + ADD RECORD button.



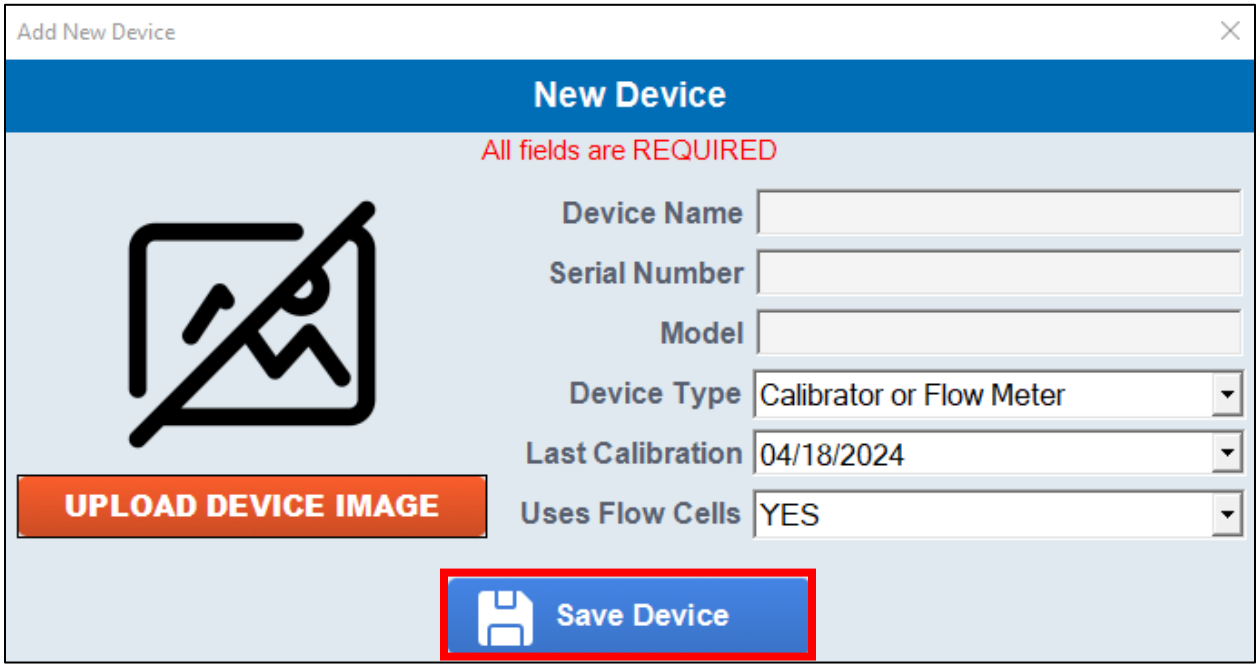
When making this selection, you will have the choice to create the sample event from a list of pumps already used in your database, or to Add New Device.



To add a new device, select the ADD NEW DEVICE button and a template will appear that allows you to add the details for the device to be added.

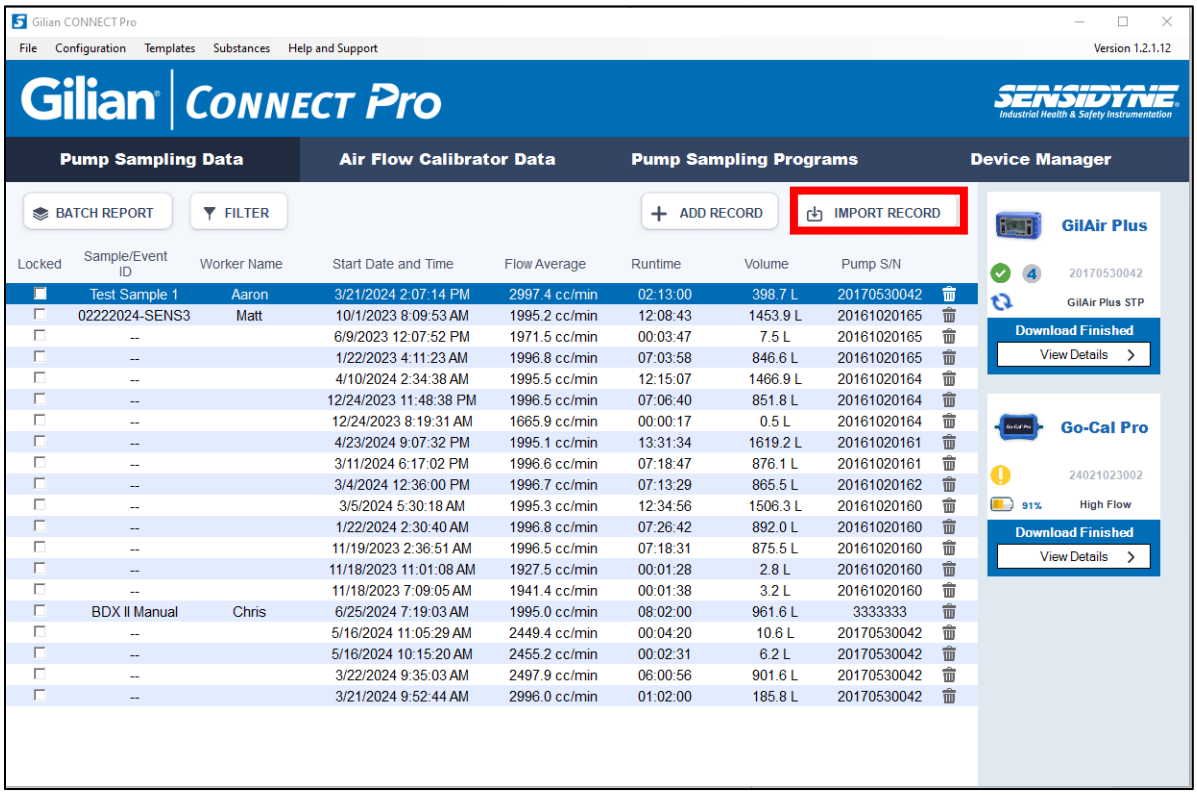


You have the option to load a picture of that device for further reference. All other fields must be completed. The Device Type can be set to Sampling Pump or to Calibrator/Air Flow Meters. If set to Calibrator or Air Flow Meter, it will give the option for use with or without modular Flow Cells.

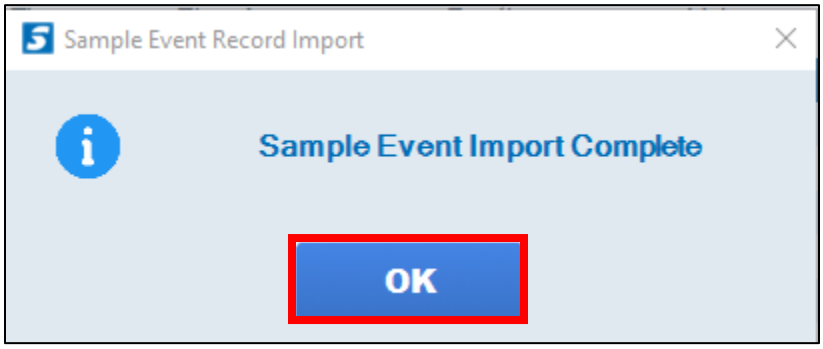


Upon completing the fields, select the Save Device button, and a new event can be manually added associated with that device.

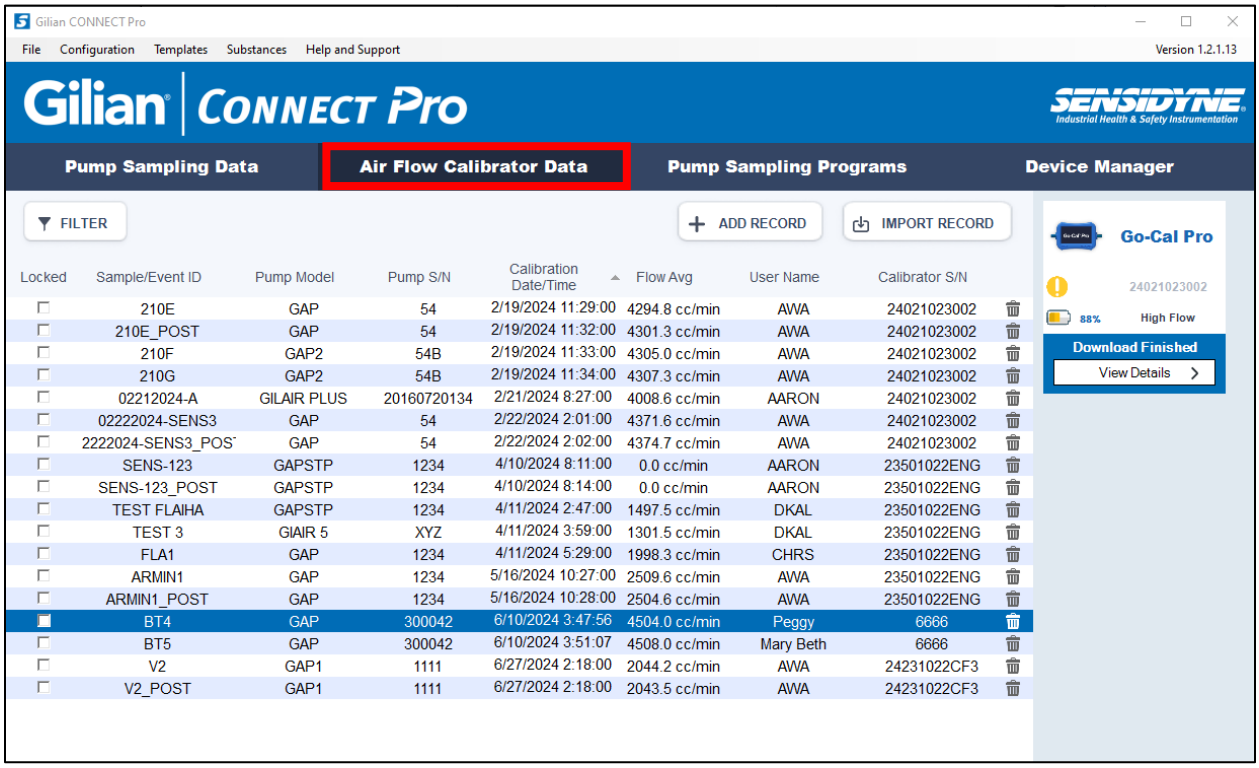
If an individual record of an air sampling event has been stored and sent to another user, it may be imported into an existing database, by selecting the IMPORT Record button.



A browser window will open and allow you to load a selected file with the extension .gcs. Once a file with the appropriate extension has been selected, a message will appear stating, Sample Event Import Complete. You will need to acknowledge by selecting the OK button.



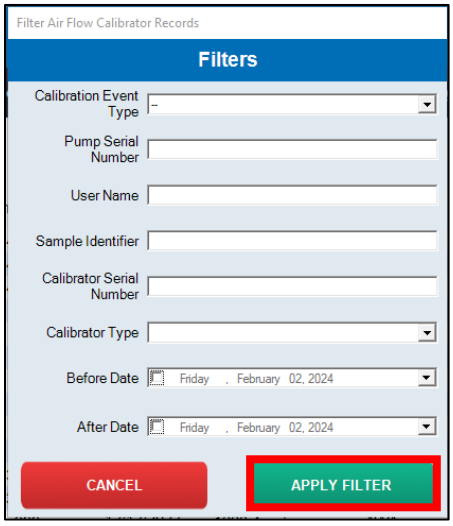
To view air flow calibration events, select the Air Flow Calibrator Data tab.



Locked	Sample/Event ID	Pump Model	Pump S/N	Calibration Date/Time	Flow Avg	User Name	Calibrator S/N
☐	210E	GAP	54	2/19/2024 11:29:00	4294.8 cc/min	AWA	24021023002
☐	210E_POST	GAP	54	2/19/2024 11:32:00	4301.3 cc/min	AWA	24021023002
☐	210F	GAP2	54B	2/19/2024 11:33:00	4305.0 cc/min	AWA	24021023002
☐	210G	GAP2	54B	2/19/2024 11:34:00	4307.3 cc/min	AWA	24021023002
☐	02212024-A	GILAIR PLUS	20160720134	2/21/2024 8:27:00	4008.6 cc/min	AARON	24021023002
☐	02222024-SENS3	GAP	54	2/22/2024 2:01:00	4371.6 cc/min	AWA	24021023002
☐	2222024-SENS3_POS	GAP	54	2/22/2024 2:02:00	4374.7 cc/min	AWA	24021023002
☐	SENS-123	GAPSTP	1234	4/10/2024 8:11:00	0.0 cc/min	AARON	23501022ENG
☐	SENS-123_POST	GAPSTP	1234	4/10/2024 8:14:00	0.0 cc/min	AARON	23501022ENG
☐	TEST FLAIHA	GAPSTP	1234	4/11/2024 2:47:00	1497.5 cc/min	DKAL	23501022ENG
☐	TEST 3	GIAIR 5	XYZ	4/11/2024 3:59:00	1301.5 cc/min	DKAL	23501022ENG
☐	FLA1	GAP	1234	4/11/2024 5:29:00	1998.3 cc/min	CHRS	23501022ENG
☐	ARMIN1	GAP	1234	5/16/2024 10:27:00	2509.6 cc/min	AWA	23501022ENG
☐	ARMIN1_POST	GAP	1234	5/16/2024 10:28:00	2504.6 cc/min	AWA	23501022ENG
☐	BT4	GAP	300042	6/10/2024 3:47:56	4504.0 cc/min	Peggy	6666
☐	BT5	GAP	300042	6/10/2024 3:51:07	4508.0 cc/min	Mary Beth	6666
☐	V2	GAP1	1111	6/27/2024 2:18:00	2044.2 cc/min	AWA	24231022CF3
☐	V2_POST	GAP1	1111	6/27/2024 2:18:00	2043.5 cc/min	AWA	24231022CF3

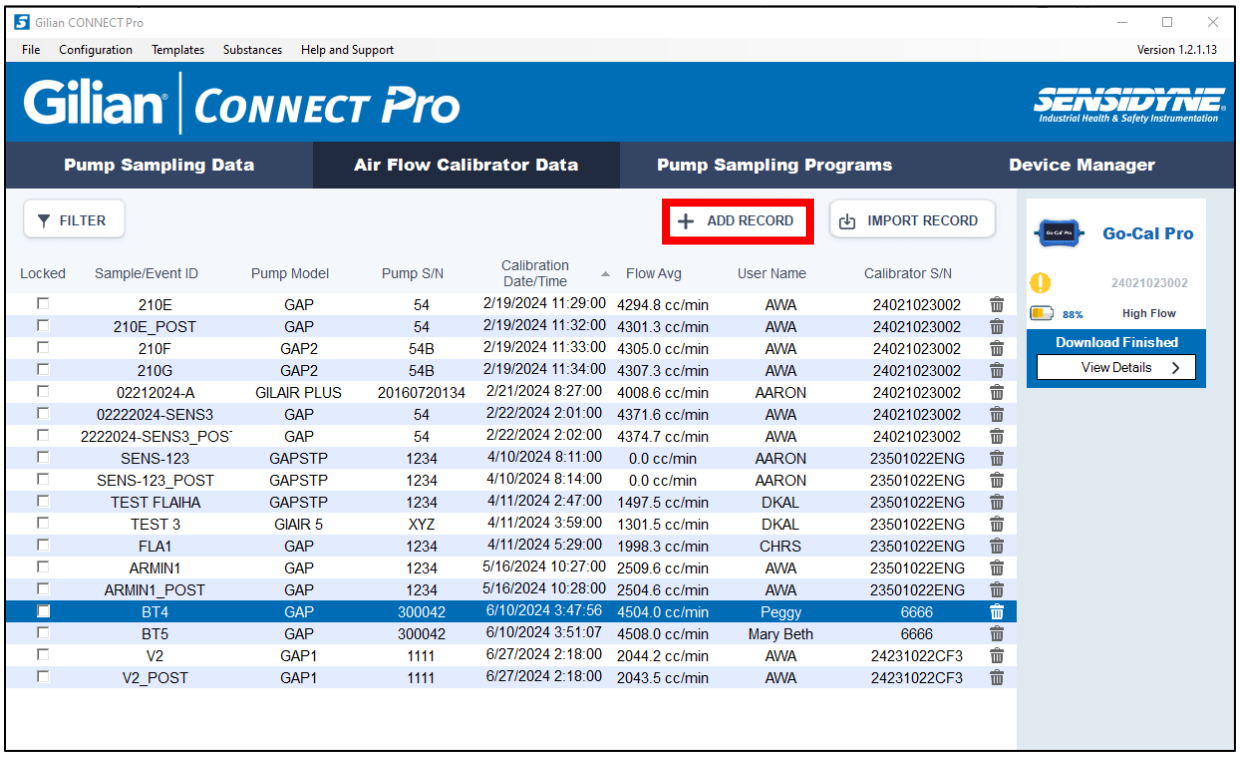
The Air Flow Calibrator Data tab displays the downloaded calibration data as named flow verification events. Each event can be opened by double clicking the highlighted line. This will allow for additional event information to be entered and to link the pump sampling event to calibration events.

Events can be sorted by selecting any of the column headers, or by using the following Filter function.

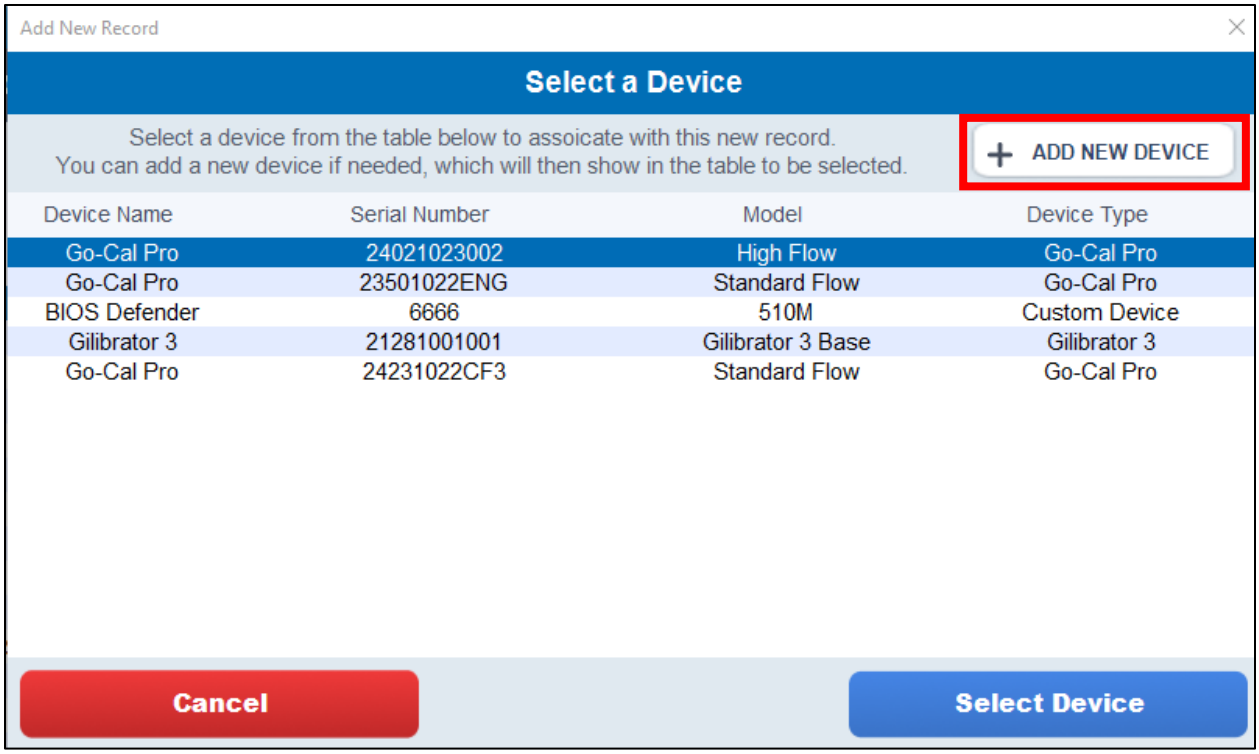


Enter in one or more fields, and click the Apply Filter button. The event(s) that meet the parameters of the filter will be displayed within the tab.

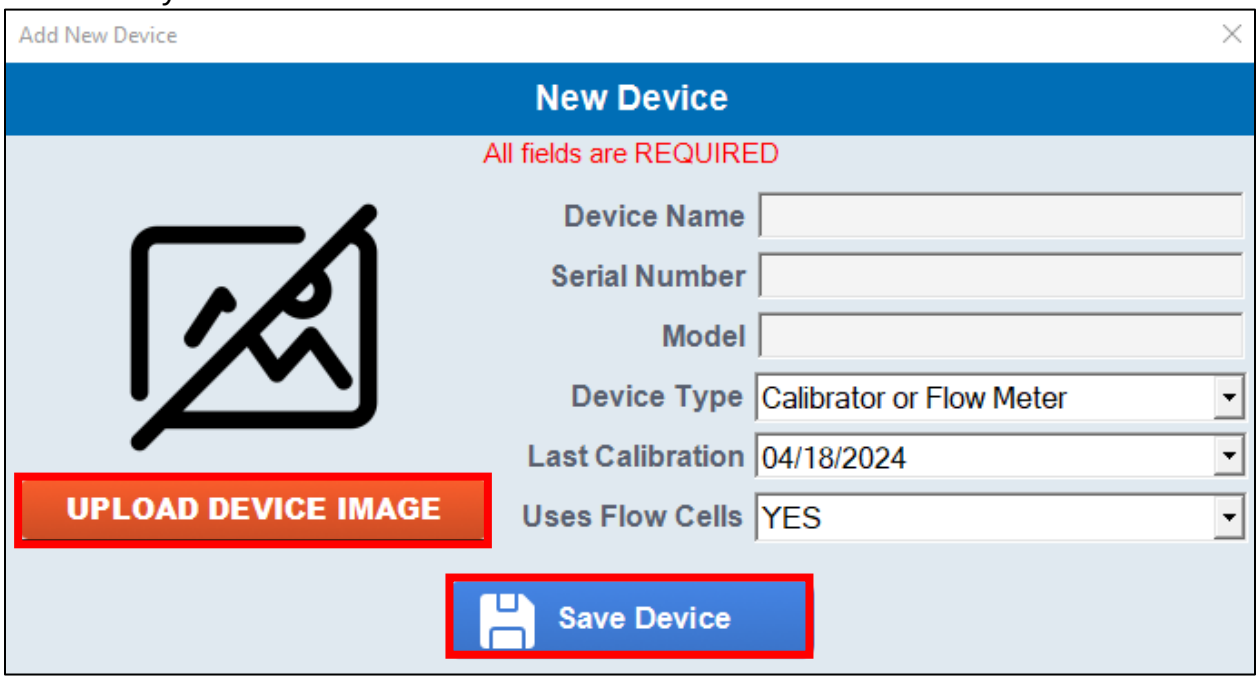
Air Flow Calibration Events may also be manually entered by selecting the + ADD RECORD button.



When making this selection, you will have the choice to create the Air Flow Calibration event from a list of devices already used in your database, or to Add New Device.

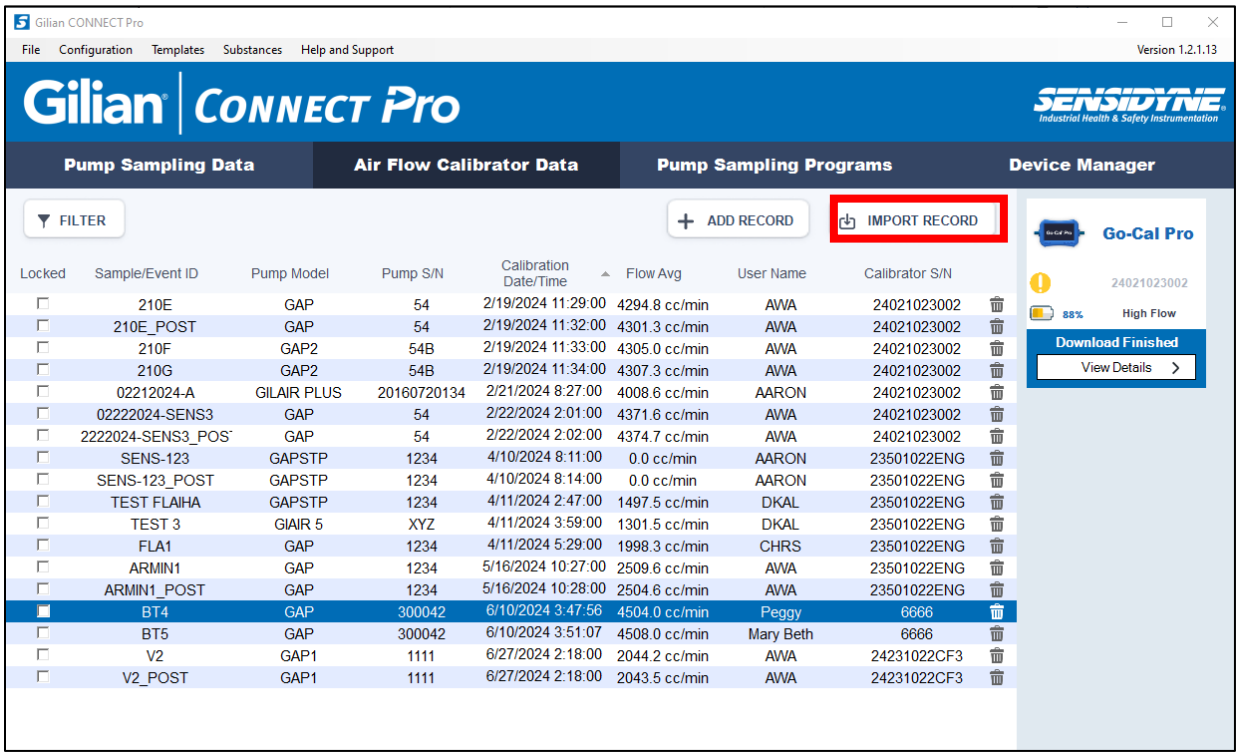


To add a new device, select the ADD NEW DEVICE button and a template will appear that allows you to add the details for the device to be added.



You have the option to load a picture of that device for further reference. All other fields must be completed. The Device Type can be set to Sampling Pump or to Calibrator/Air Flow Meters. If set to Calibrator or Air Flow Meter, it will give the option for use with or without modular Flow Cells. Upon completing the fields, select the Save Device button, and a new event can be manually added associated with that device.

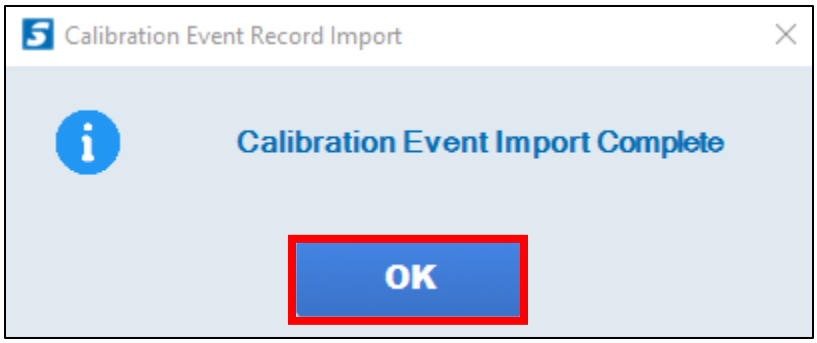
If an individual record of an air flow calibration event has been stored and sent to another user, it may be imported into an existing database, by selecting the IMPORT Record button.



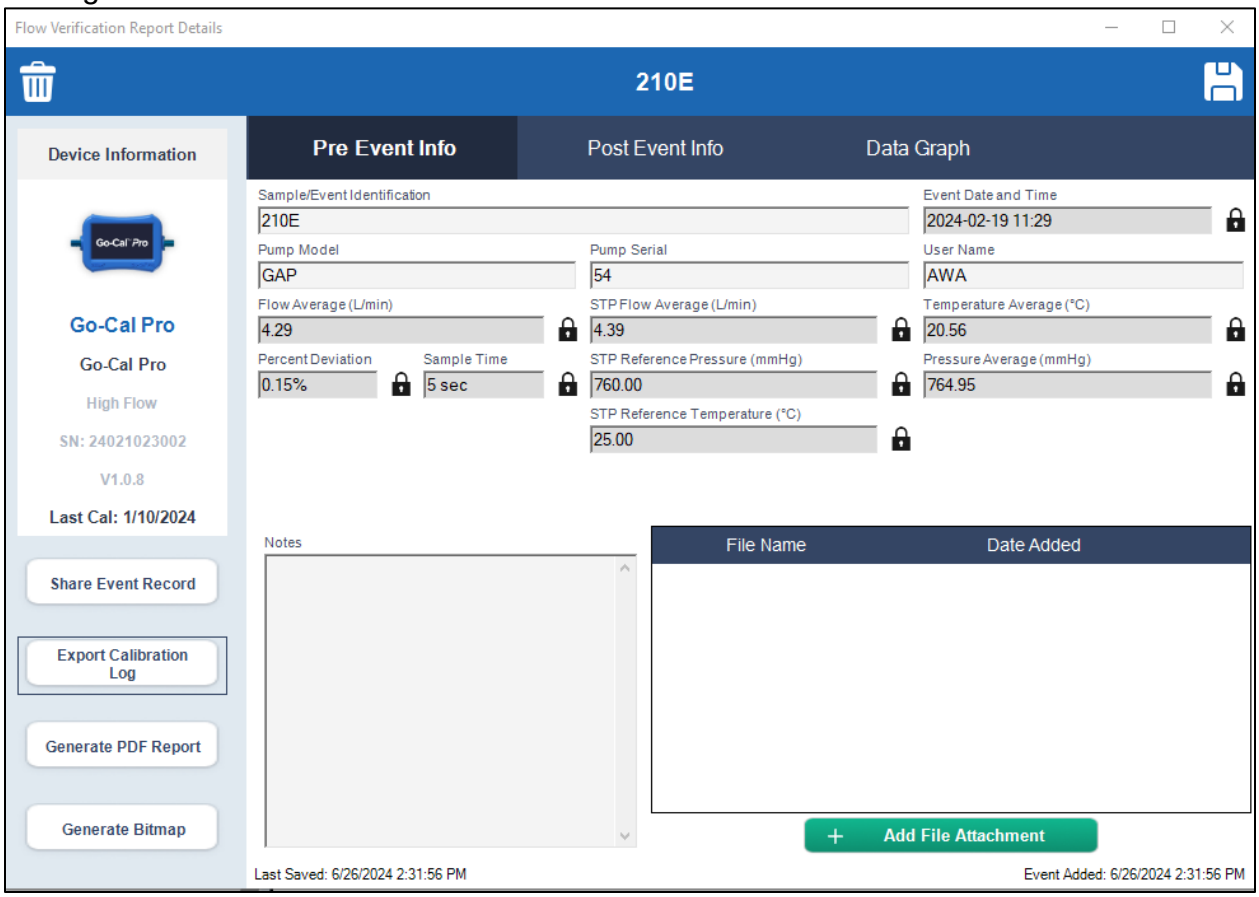
An air flow calibration import widow will appear with a choice to choose from a saved Connect Pro Record (.gcc) or a Gilibrator 3 CSV file.

Select the desired type of record to import (Connect Pro or Gilibrator 3) and a browser window will open, allowing you to choose the folder and file with the appropriate file extensions.

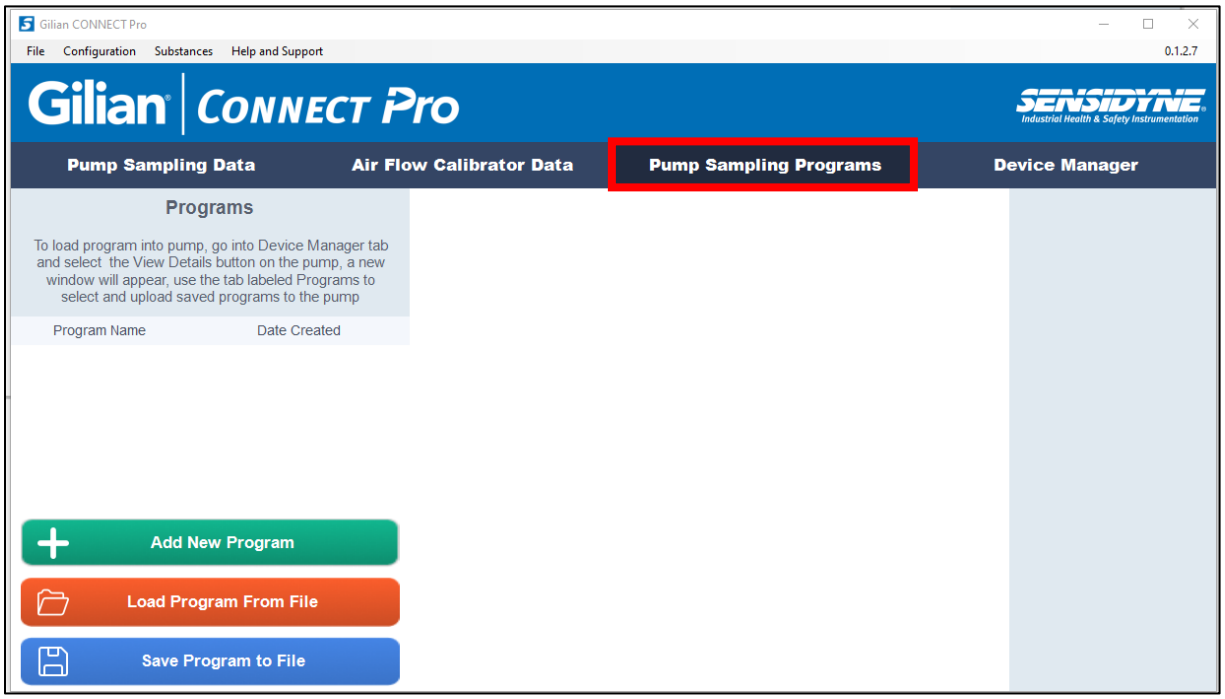
Once a file with the appropriate extension has been selected, a message will appear stating, Calibration Event Import Complete. You will need to acknowledge by selecting the OK button.



Additional editing may be done within a selected calibration entry. See section on Editing Air Flow Calibrator Data.



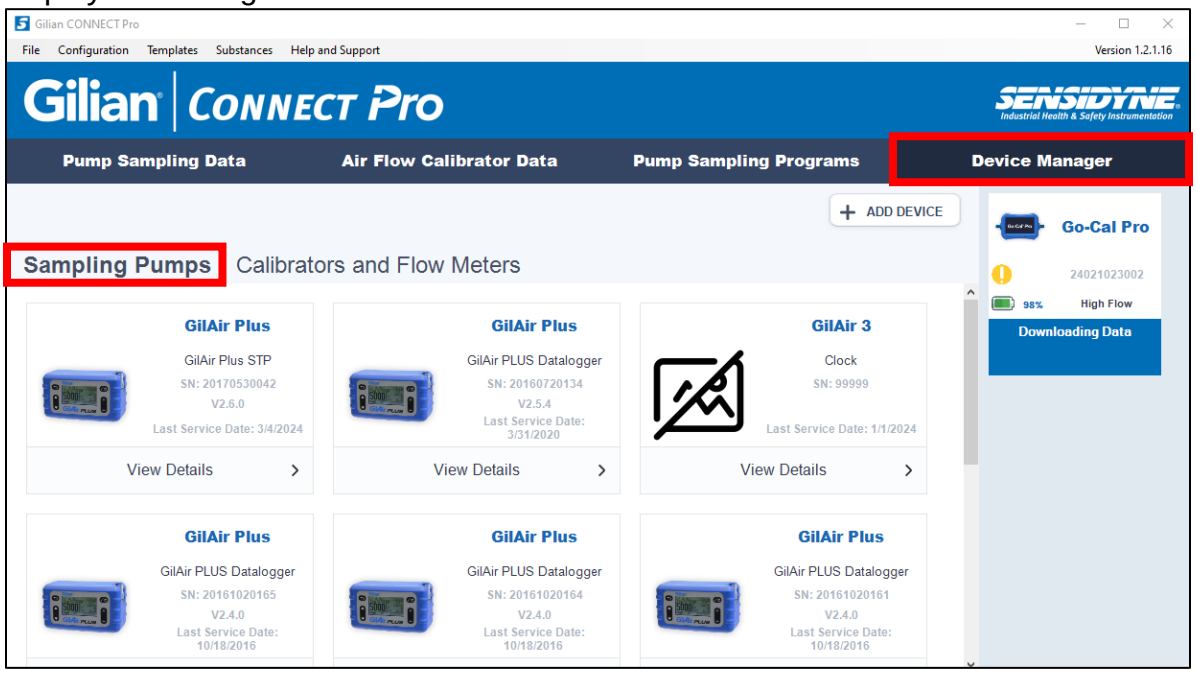
To create pump sampling programs from within Connect Pro, select the Pump Samplings Programs tab.



The Pump Sampling Programs tab allows for creation of new pump programs, the ability to load a previously created pump sampling program to your list of available programs, and the ability to save a pump program to file. To load the pump program into the pump, you will need to go into Device Manager Tab and select from the list of connected pumps.

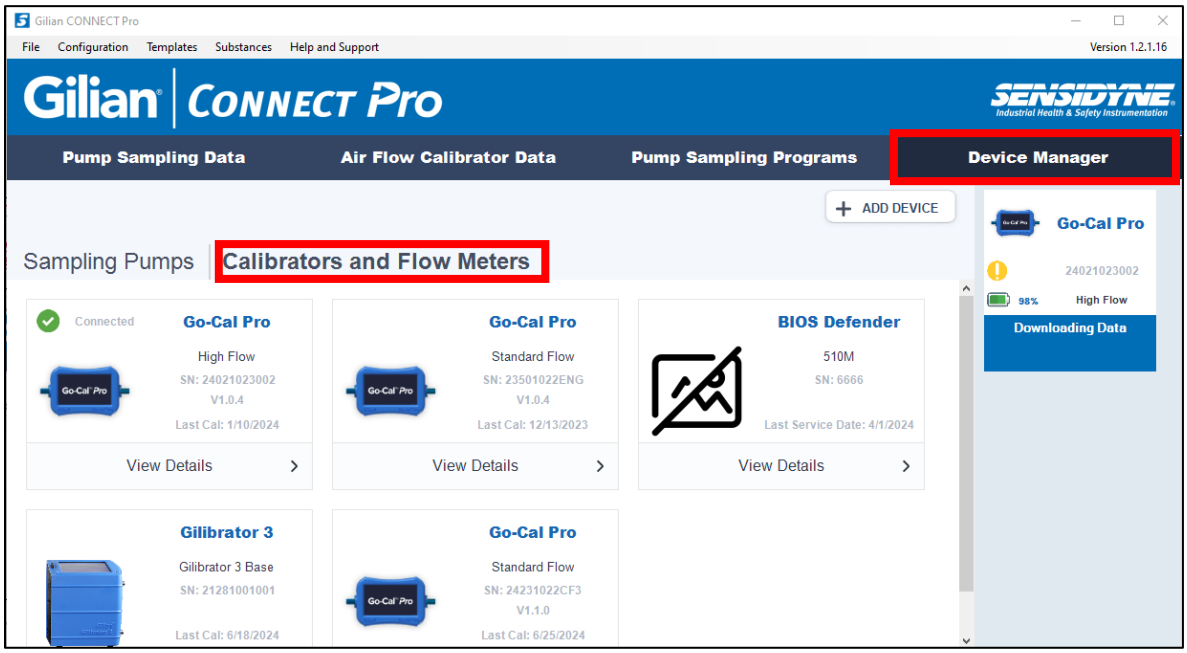
See Pump Program Management section for more information on creating program steps.

The Device Manager tab has two sub-tabs, one for Sampling Pumps and the other for Calibrators and Flow Meters. There is a history of all previously connected devices present within each of the sub-tabs, and the devices that are currently connected will be displayed with a green checkmark.



Air Sampling Devices may also be manually added from this tab.

To view connected calibrators and historically connected calibrators, select the sub-tab, Calibrators and Flow Meters.



Calibrator and Air Flow Meter devices may also be manually added from this tab.

Select the View Details button on any connected device to open and edit the devices configuration. See Page 41 for more information on Pump and Calibrator Configuration.

Connecting to a device

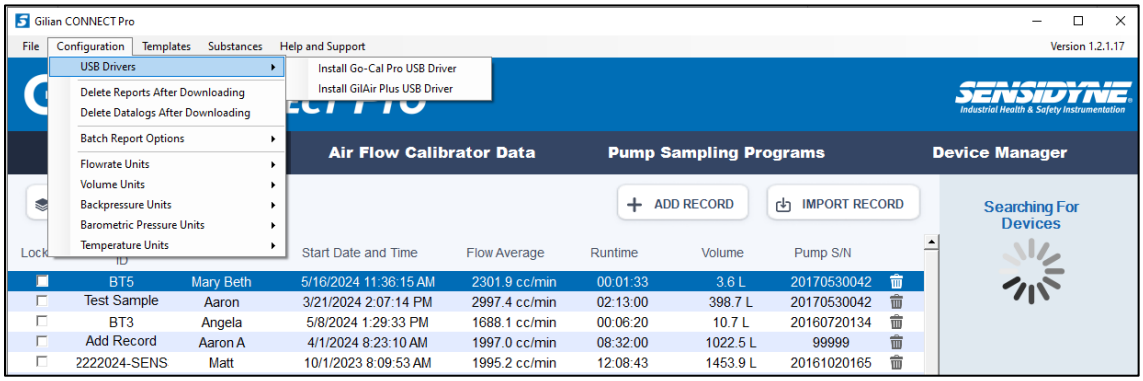
Connecting a pump

Ensure the Dock is powered with the included power adapter and connected to the computer with the USB cable provided.

Gilian Connect Pro will automatically find the COM ports that are connected to Gilian Equipment once USB Drivers are installed.

The Connect Pro software will detect the device and begin to download the event data.

If the device is not auto detected, the USB Drivers can also be installed from the Configuration menu at the top of the Main Screen. Select “USB Drivers” from the configuration menu dropdown. Both Gilian Go-Cal Pro and GilAir Plus drivers will need to be installed separately.



Note – If a pump is connected that does not meet the minimum firmware requirement, the Device List will show “Incompatible Device”.

Connecting a calibrator

Ensure the calibrator is powered on and connected to the computer with the USB cable provided.

The Connect Pro software will detect the device and begin to download the event data.

Automated Pump Registration

Pumps must be registered into the Gilian CONNECT database on your computer before data can be downloaded. This process is automatic and only needs to be done once, but only one pump can be registered at a time. If you have a multi-station dock and a pump does not appear in the list of connected pumps, follow these steps:

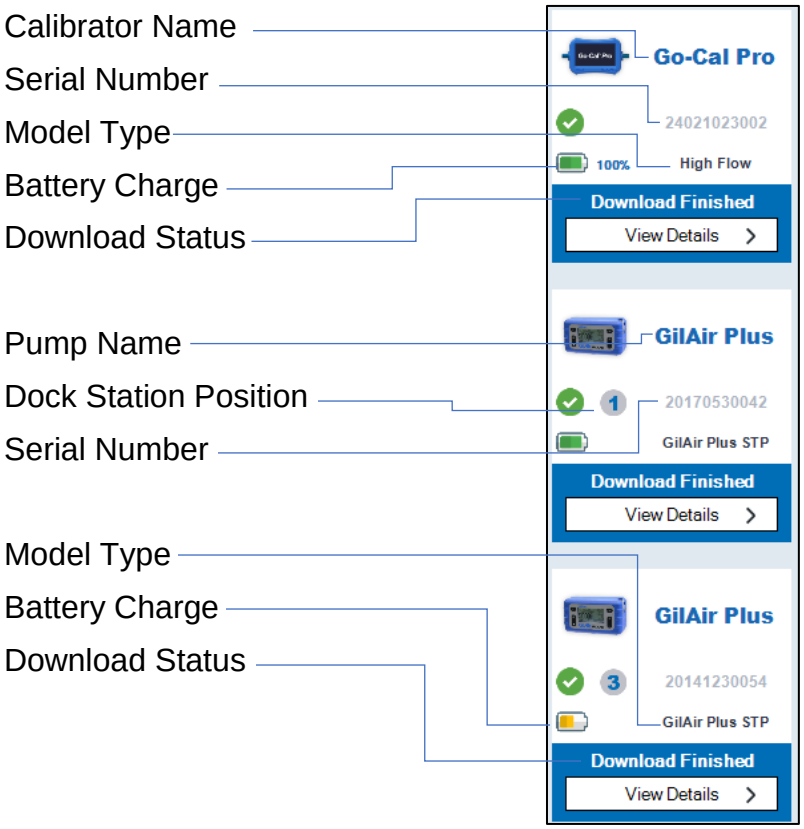
- Remove all other pumps
- Allow up to 30 seconds for the pump to be recognized
- When it appears in the pump status display in the app, it is ready
- Other pumps can now be connected to the dock

Pump and Calibrator Status Display

When Gilian CONNECT Pro is communicating with a pump or calibrator, the status will be displayed in the list of connected devices.

The connected pumps and calibrator list contains status boxes that let you know if the device is still downloading, or if the download has finished. Additionally, pumps will contain a numeral that correspond to each position in a five-station or three station dock.

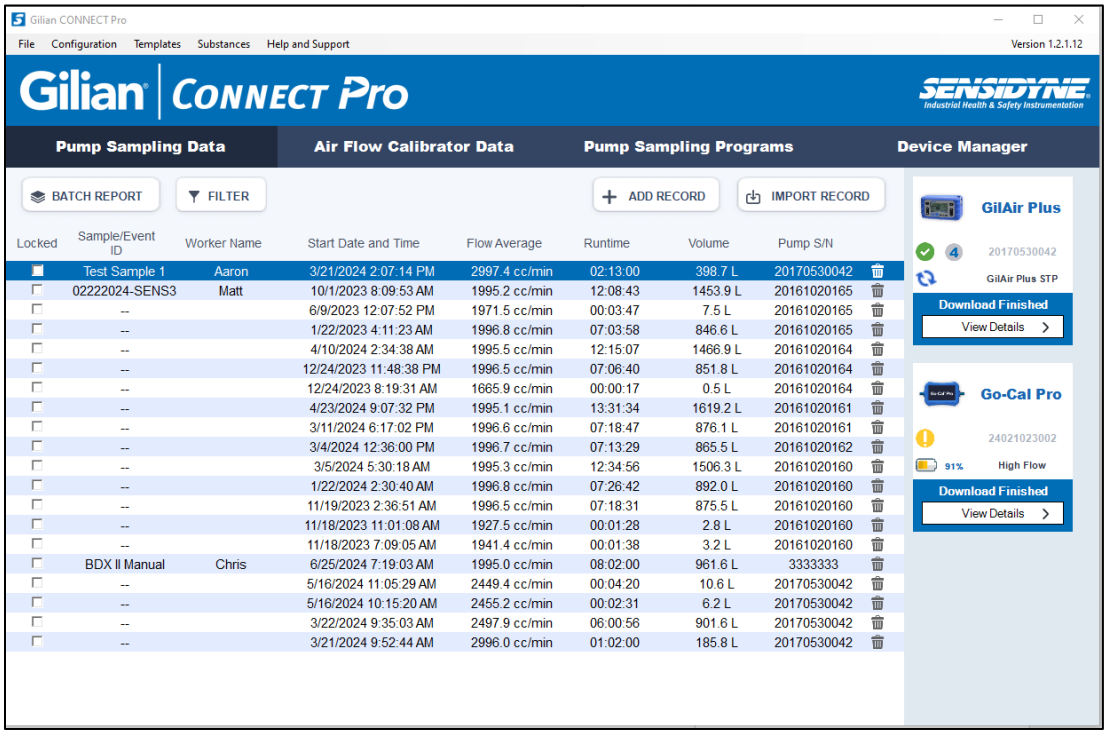
To view the pump or calibrator details, you can select the View Details button for each instrument and view the instrument serial numbers, name, and firmware version, as well as the current settings. The Settings sub-tab also allow you to configure the settings within the Connect Pro program and load them into the instrument. See page 35 for further instructions.



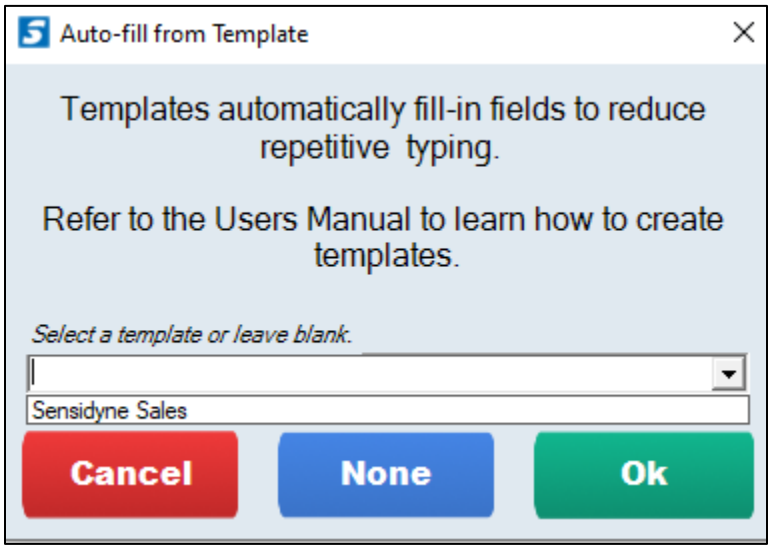
Battery-Charging Status: A fully-charged pump will undergo a top-off cycle to ensure battery health. A green battery icon indicates a fully charged battery.

Editing Events

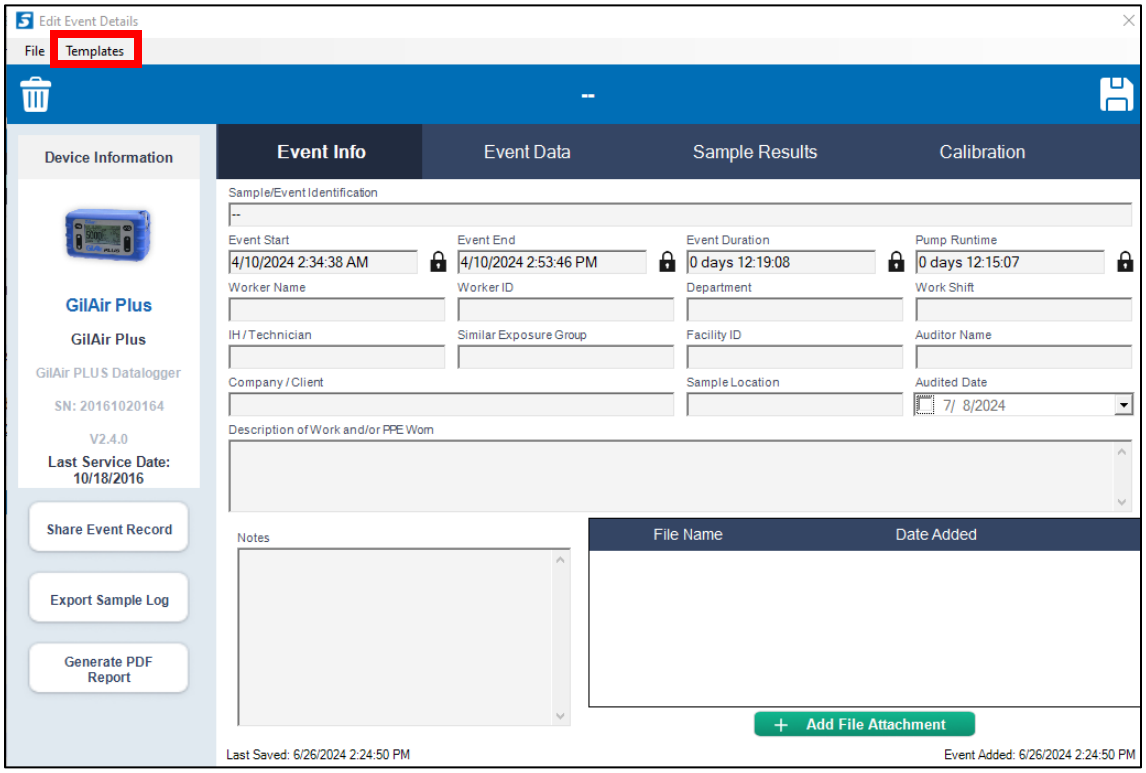
To view and edit details about a sampling event, double-click a highlighted row in the Sample History list.



An Auto-fill from Template window will appear. If you have a saved Air Sampling Event Template that has been created, you may select it from the drop down. If you do not have an existing template or wish to create a new template, select None.



An Edit Event Details window will appear. This is where you can enter information such as Worker Name, Job Title, Target Sampling Substance, the quantity and result of target substance sampled, and link your calibration event data.



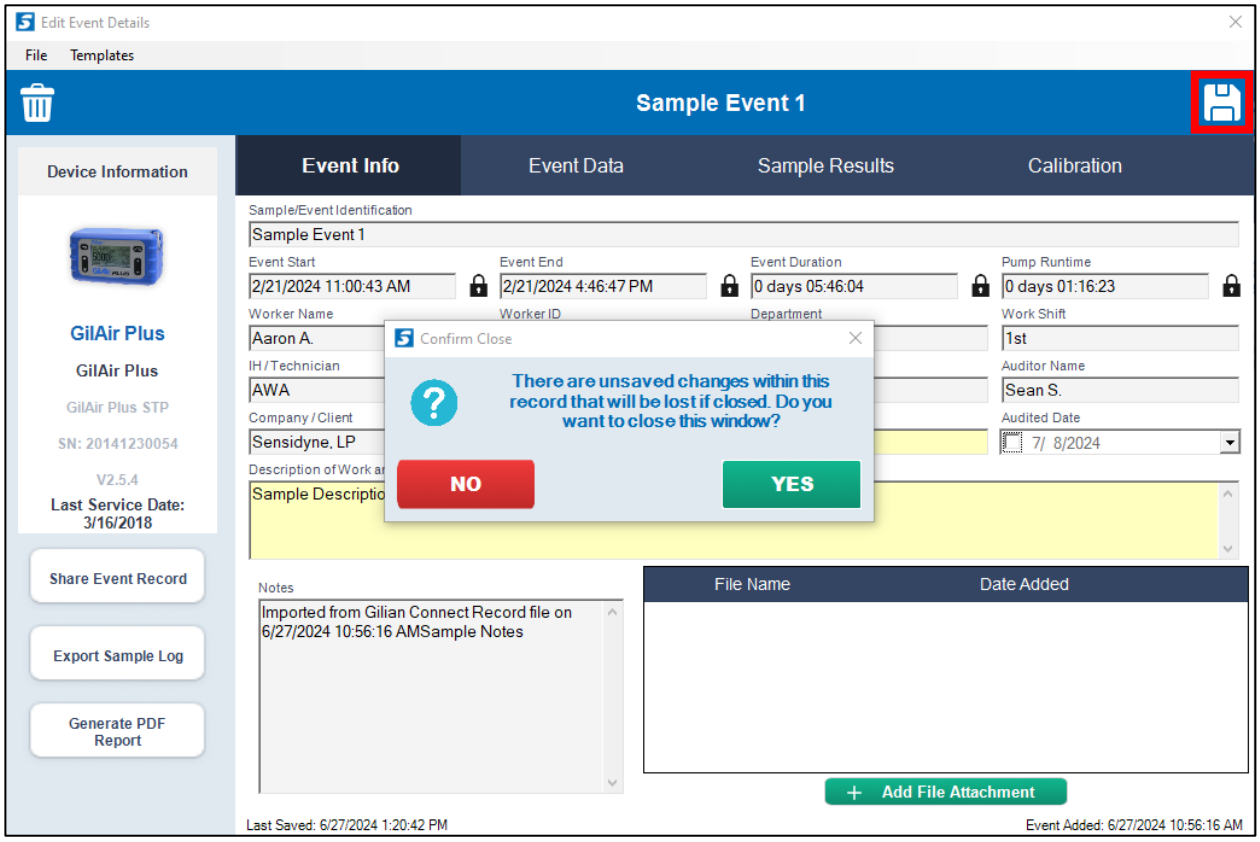
If you wish to create a new template, you may complete the common fields utilized on this screen and then select Templates, and Save Template from the menu option at the top of the window.

If an existing template is applied, there is still an option to change the highlighted fields that are populated in the Event Info tab.

Textbox background colors

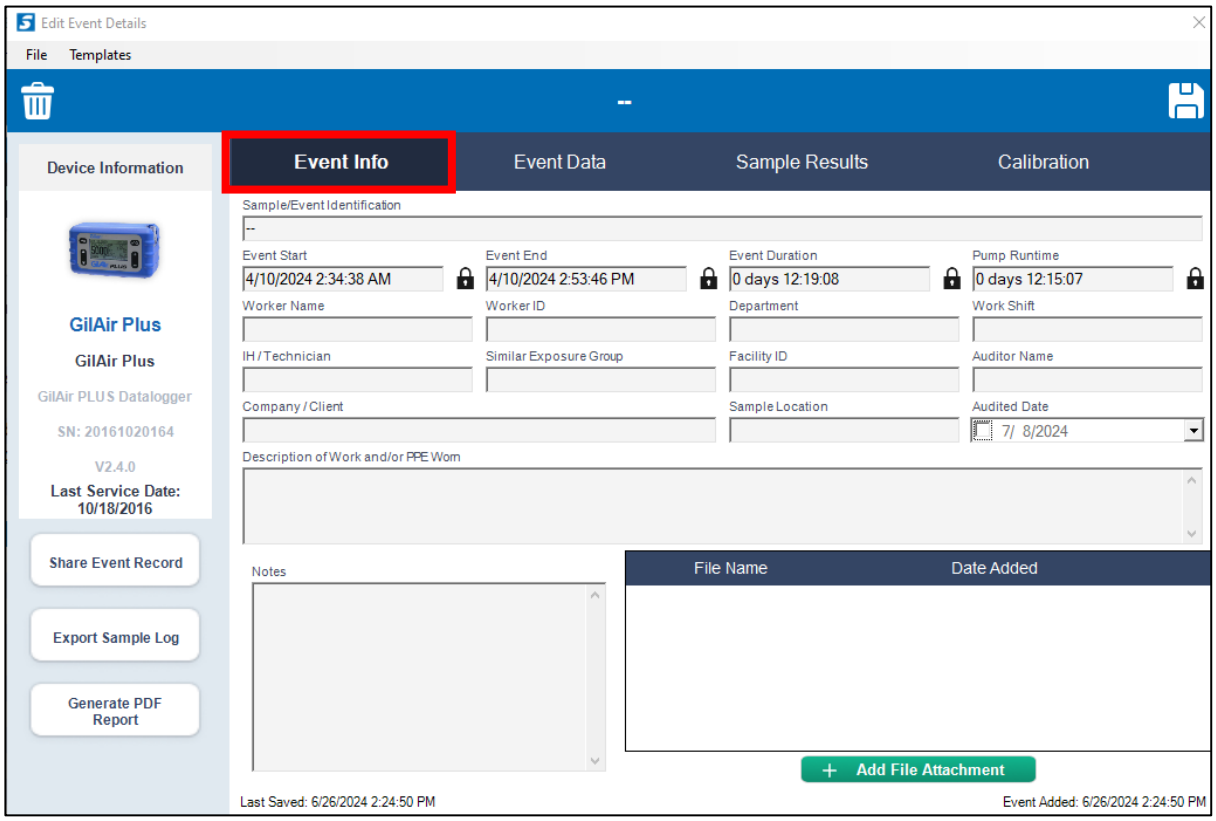
As data is entered, the background color of the boxes indicate the status of the boxes. The color will change from grey to yellow once a change to that field has occurred. If you attempt to leave an event after a change has been made, a notification window will pop up and ask if you would like to save the changes before exiting.

Note – Several fields that pull in data from the instruments are locked and cannot be edited. These fields will display a lock adjacent to the field.



To exit without saving, select yes, or to save your entry, select no and then select the Disk icon in the upper right corner.

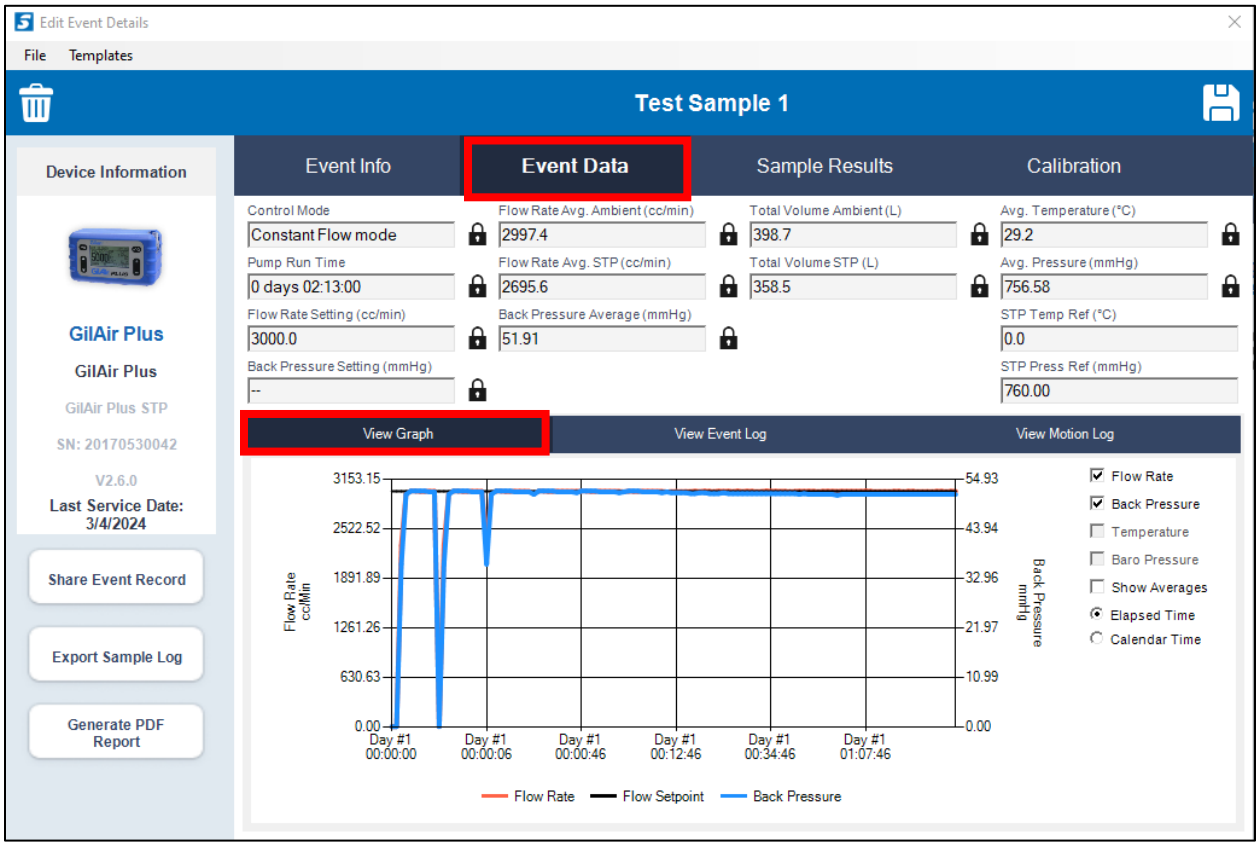
Event Editing Window Sub-tabs



The Event Info Tab allows for entry of the event name. This is often characterized by the Unique Sample Identification used for the sample media, and/or specified on the laboratory chain of custody. Other pertinent sample information can be added in this tab to further characterize the sampling event and worker or location being sampled.

There is an additional field that allows for a typed out Description of Work and/or PPE that may have been worn by the worker. There is also a Notes section to add any other notes collected by the IH/Technician. Lastly, there is the ability to add files to the event that may include photos, SDS sheets or other information relating to the sampling event.

The Event Data tab pulls in information from the sampling pump. Several fields that pull in data from the instruments are locked and cannot be edited. These fields will display a lock adjacent to the field. The information includes settings on the pump, the average Flow Rate and the Total Volume collected. If your pump model has temperature and pressure sensors, this information will also be displayed, along with the STP corrected Flow Rate and Volume.



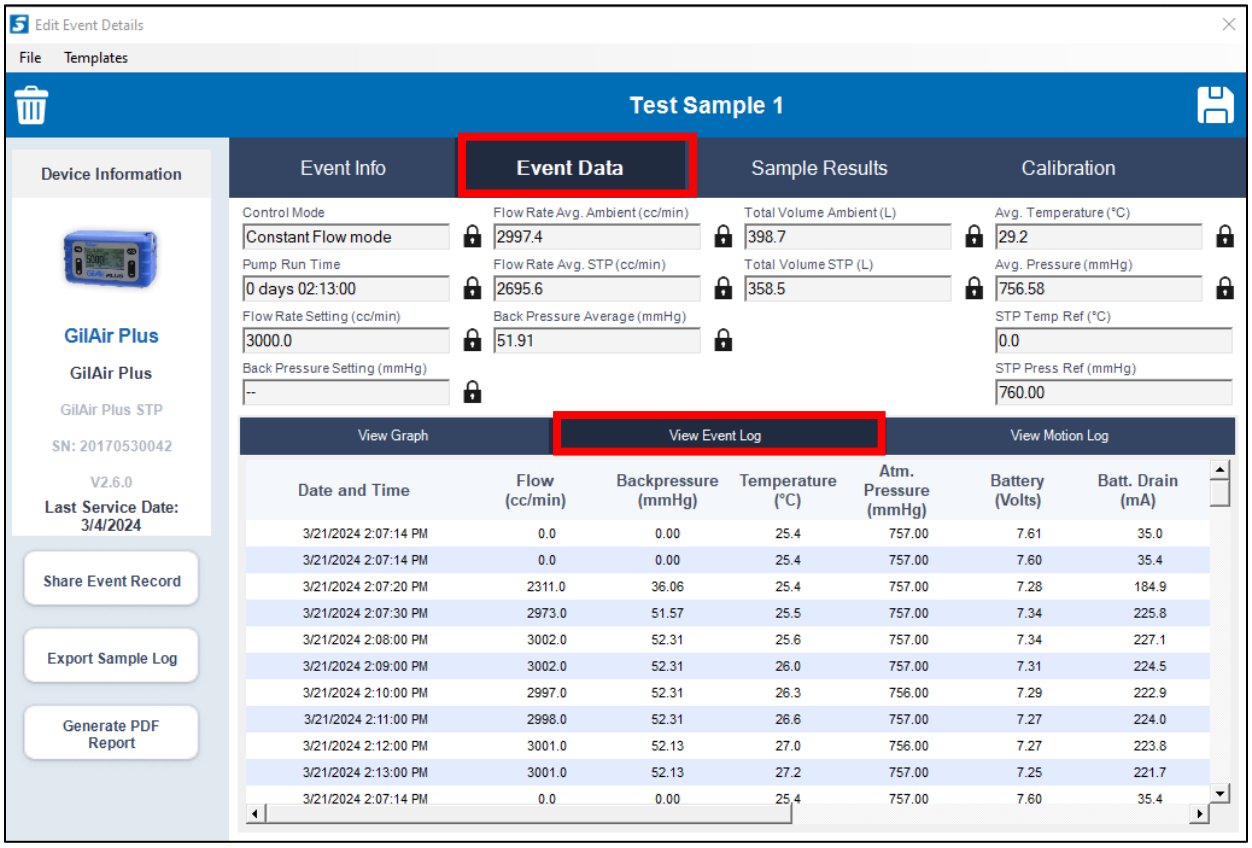
Below the data fields, there are up to three tabs. The first sub-tab will display an Event Graph. Only two types of data may be displayed simultaneously. If two are already selected, de-select one or both to enable the other options. The data selected first is displayed on the left vertical axis, and the second is displayed on the right.

The graph can be manipulated by checking the boxes in the adjacent Key. The Graph will default to show Flow Rate and Back Pressure. To select ambient temperature and barometric pressure information to be displayed, uncheck the Flow Rate and Back Pressure boxes from the Key, and then select the Temperature and Baro Pressure boxes in the Key.

To see the average value of each of these parameters, select Show Averages box on the Key and the average values will also appear on the graph.

Temperature and Atmospheric Pressure data are only available for events recorded by STP pumps.

The second sub-tab on the Event Data tab will display the Event Log. This log provides further time detail information on the data collected throughout the sampling event.



Every data point recorded by the pump during the sampling event can is displayed in the View Event Log sub-tab.

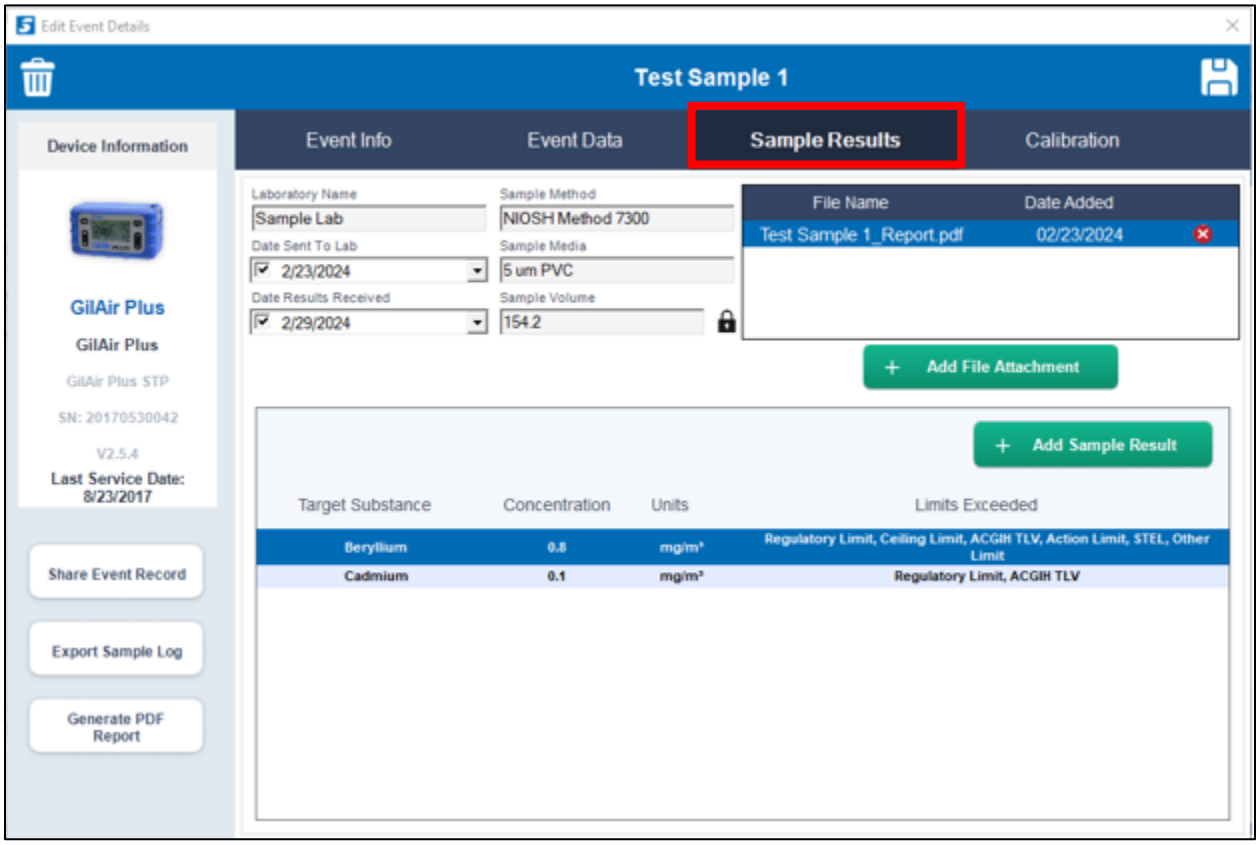
Temperature and Atmospheric Pressure data are only available for events recorded by STP pumps.

The third sub-tab on the Event Data tab will display the Motion Log, if your pump model has the Bluetooth/Motion package. The Motion data is displayed by time and is color coded to represent three motion phases.

The bar graph shows the type of motion that the pump recorded at the time. The proportions of each of the 3 types of recorded motion are displayed in the pie chart and are the same numbers that are reported on the pump's event review screen. The user motion type is broken down into ACTIVE motion (walking), STATIONARY motion (wearing, but not walking), and INACTIVE motion (not wearing).

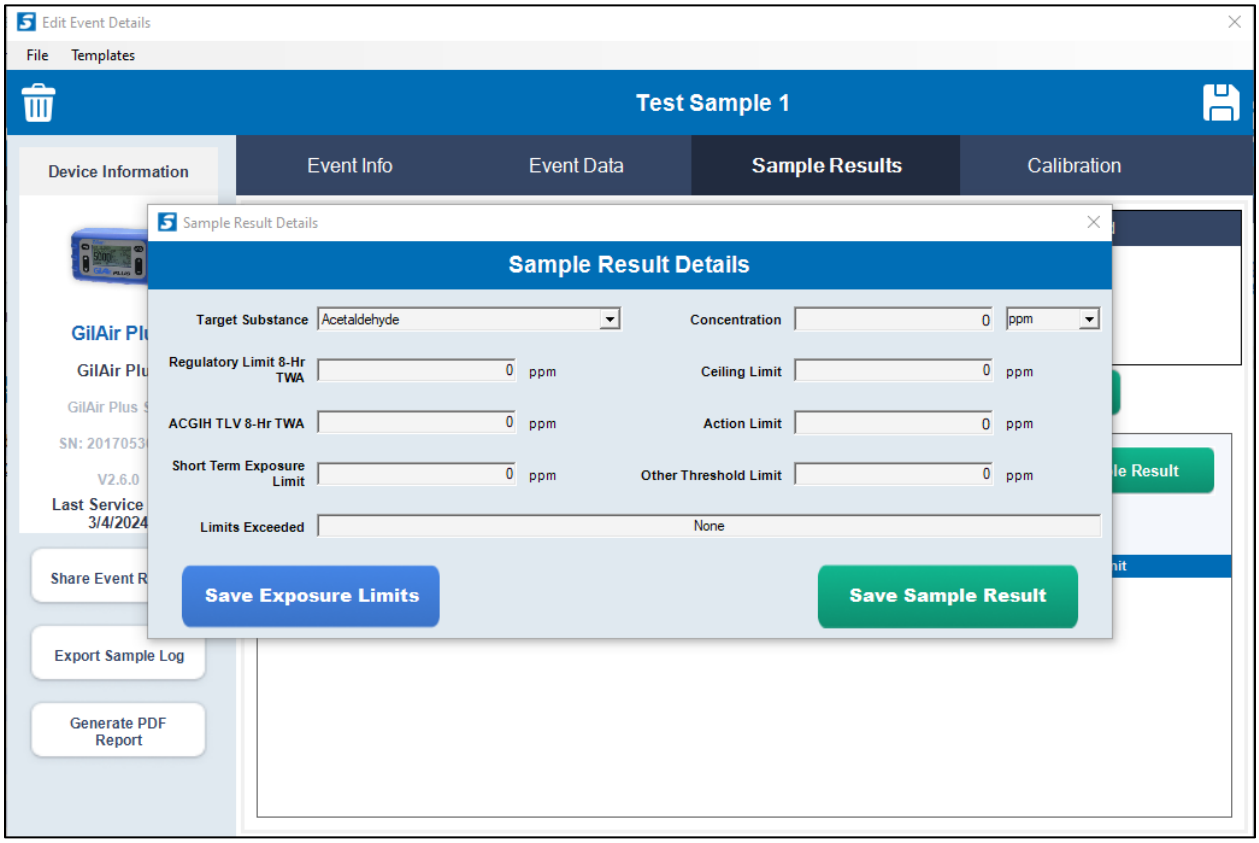
Default threshold settings provide distinction between a pump running on a desk and a pump worn by a stationary user. Threshold settings can be modified to differentiate between a resting and active user or to prevent unwanted change from **INACTIVE** to **STATIONARY** when a pump is placed on a moving surface (for example a car seat) or to ignore small movements within a work area, only changing state when the user is walking from one work area to another. For information on how the thresholds affect the motion types, please see the pump's user manual.

The third tab of the event details is the Sample Results tab. Laboratory Name, Sample Method and Sample Media type can be entered on this tab. The laboratory report and Chain of Custody files may also be attached to this event tab.



Lastly, sample results and exposure limits can be added to the event. In some cases multiple target substances are reported for that sample method and can be added for the same Sample/Event ID.

When adding a sample, a Sample Result Details window will appear. You can select from a preloaded list of Target Substances, or if not present, add new Target Substances using the Substances menu on the top of the Home Screen.

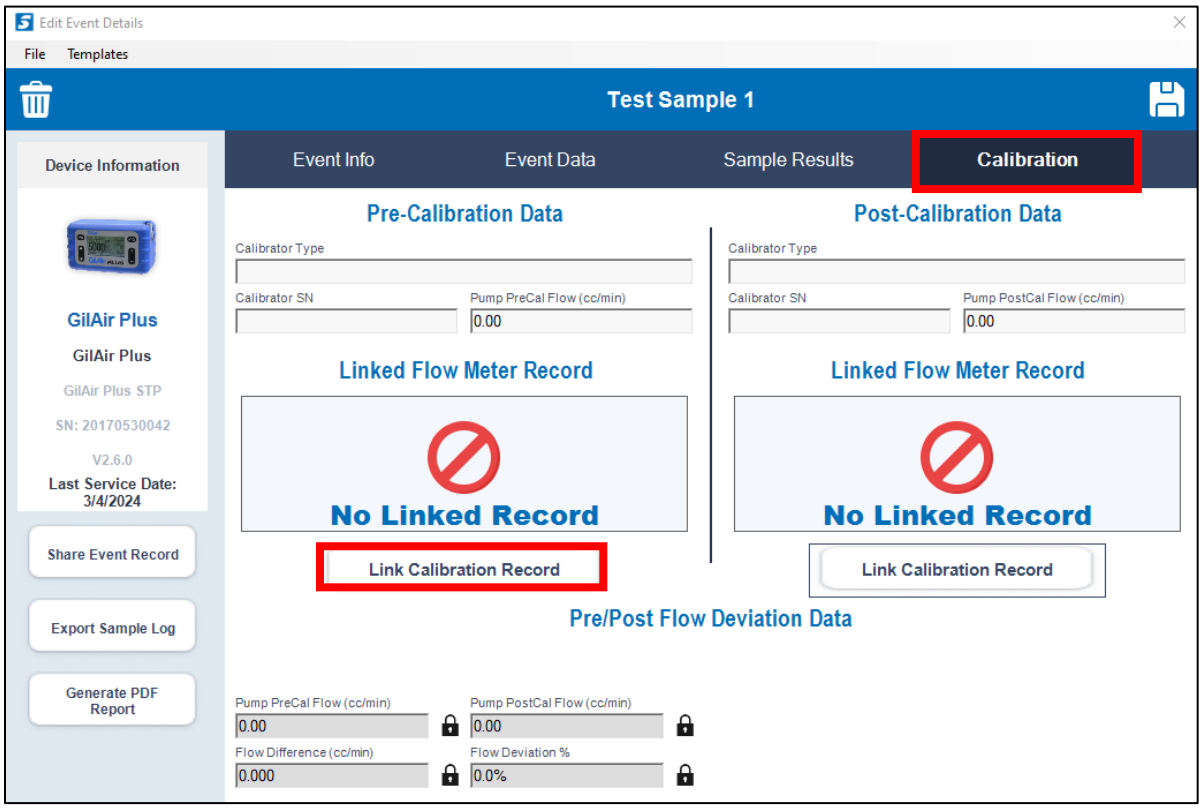


Within the Sample Result Details window, you can add the laboratory result and unit of measure. You can also enter the exposure limits associated with that target substance. Once the exposure limits have been entered, select the save exposure limits button to save these into the systems database. These fields will then be automatically populated the next time the target substances is selected.

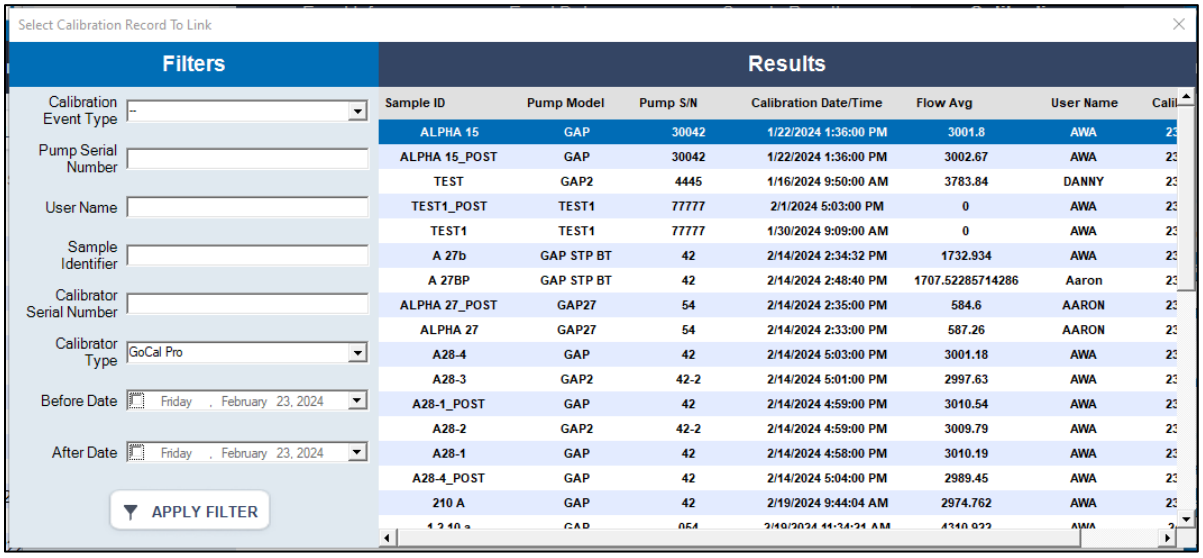
If the concentration entered is above the exposure limits, the Limit Name will be displayed in the Limits Exceeded field. This value can be queried in the Search Filter for later review of current and past exceedances.

Note – There are four preset units of measurement; ppm, mg/m3, fibers/cc, and count/cc. The default value is in ppm, and must be changed per the exceedance level units.

The fourth tab of the event details is the Calibration tab. Calibration information can be entered manually or the event can be linked to a downloaded calibration event.



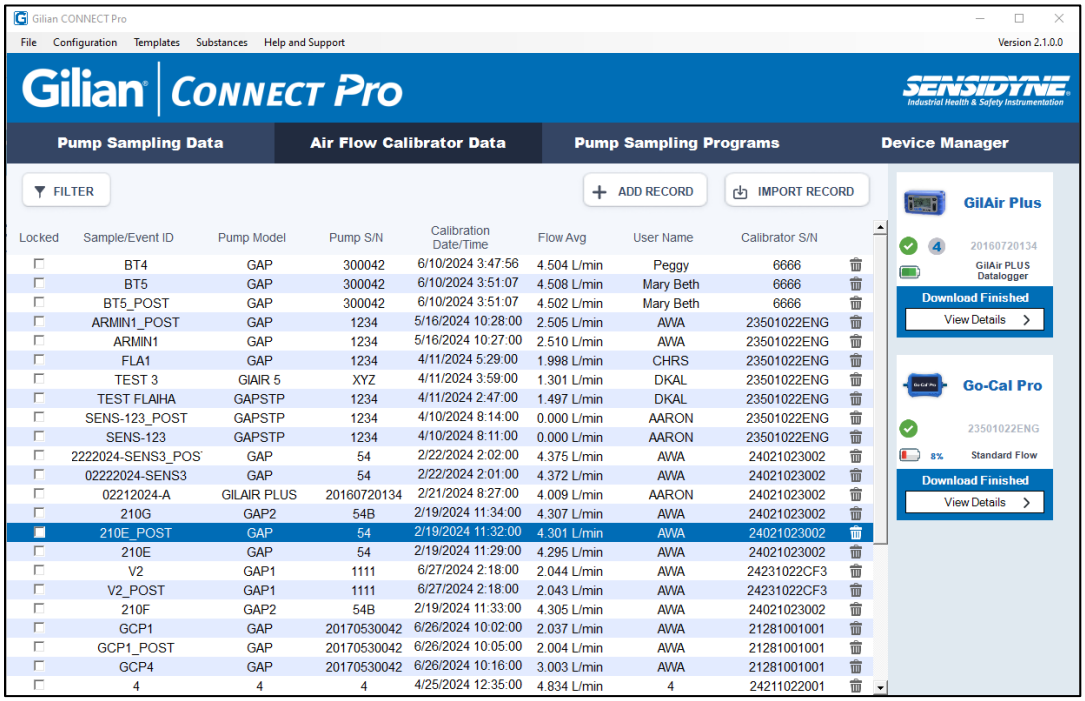
Selecting the Link Calibration Record button will open a window with a filter option for all downloaded calibration records.



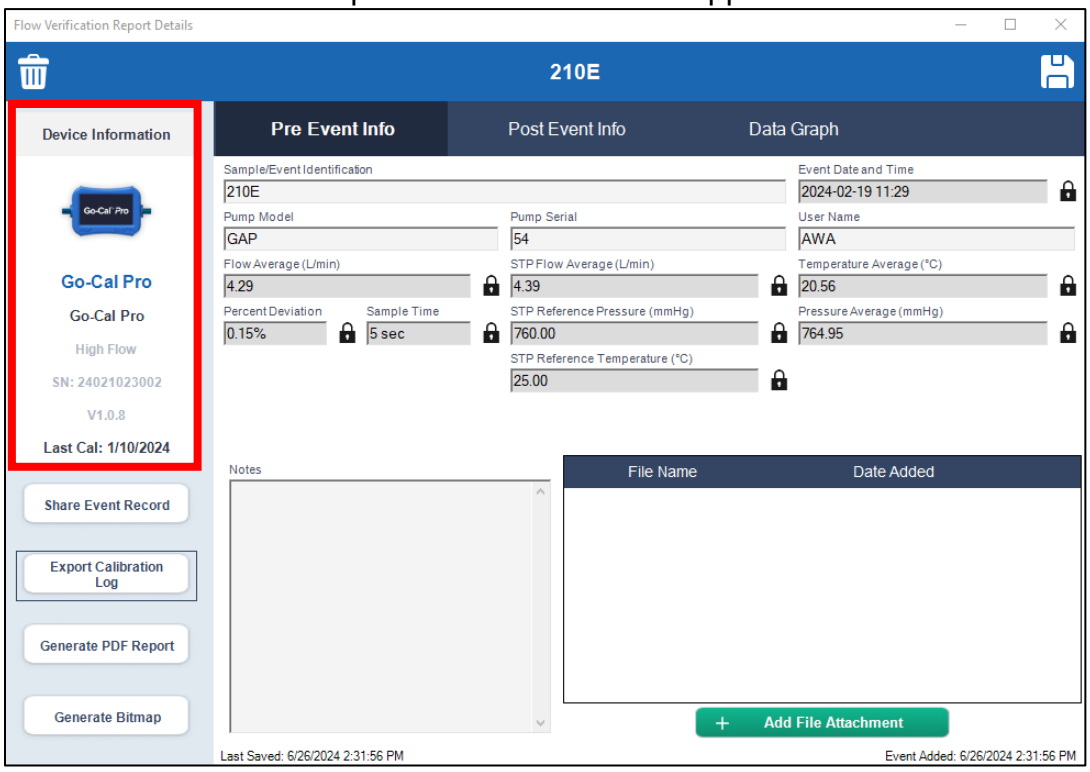
Filter and select the pre-event calibration record and if applicable repeat this step for the post-event calibration record. Once they are linked, Pre/Post Flow Deviation Data is populated showing the Flow Difference and Flow Deviation Percent that occurred over the event period.

Editing Air Flow Calibrator Data

To view and edit details about a calibrator flow verification event, double-click a highlighted row in the Air Flow Calibrator Data History list.



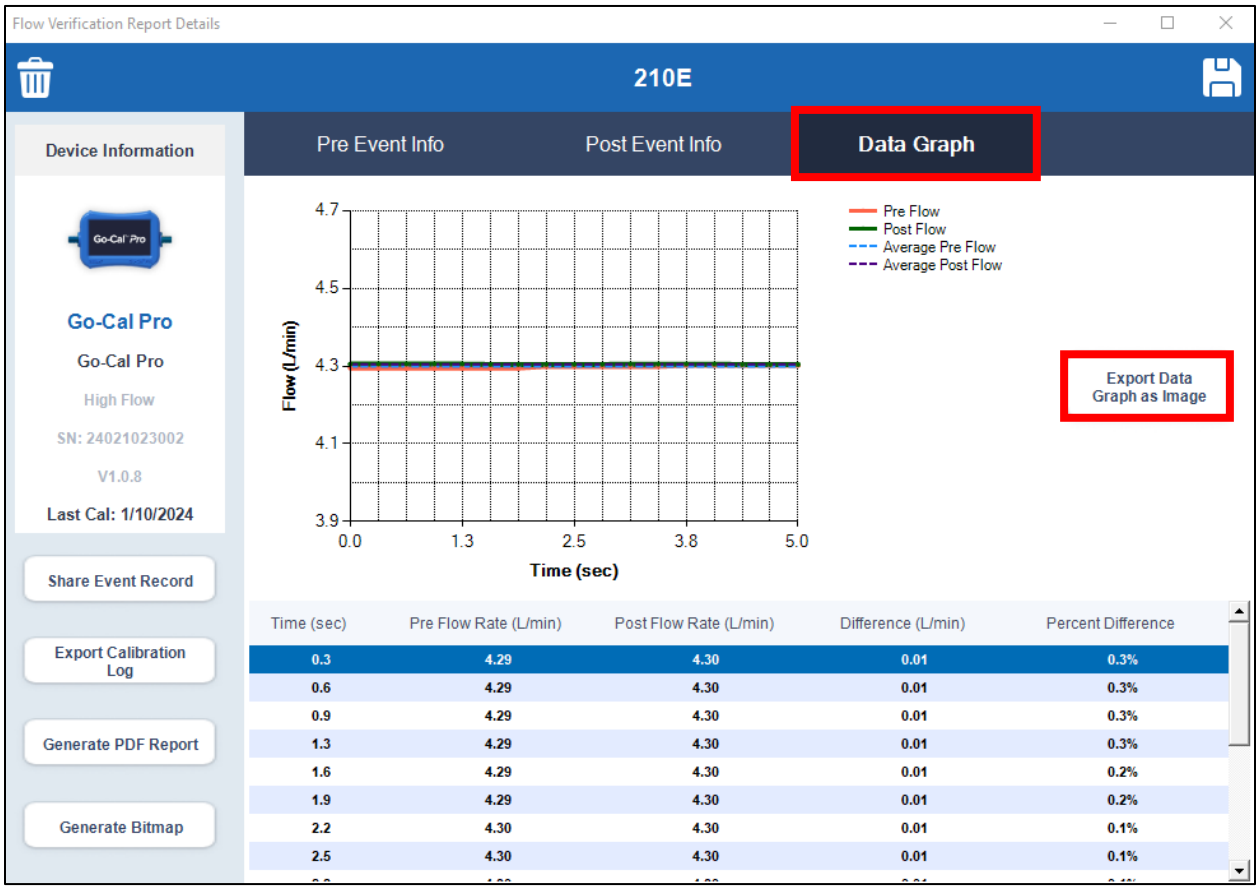
The Flow Verification Report Details window will appear.



The details window will include information about the air flow calibrator used as well as the sub-tabs containing the details of the Pre Event information and the Post Event information (if the Post Event had been linked on the device prior to download). Fields without a lock icon may be edited.

Notes and any support files may also be linked to the air flow calibration event.

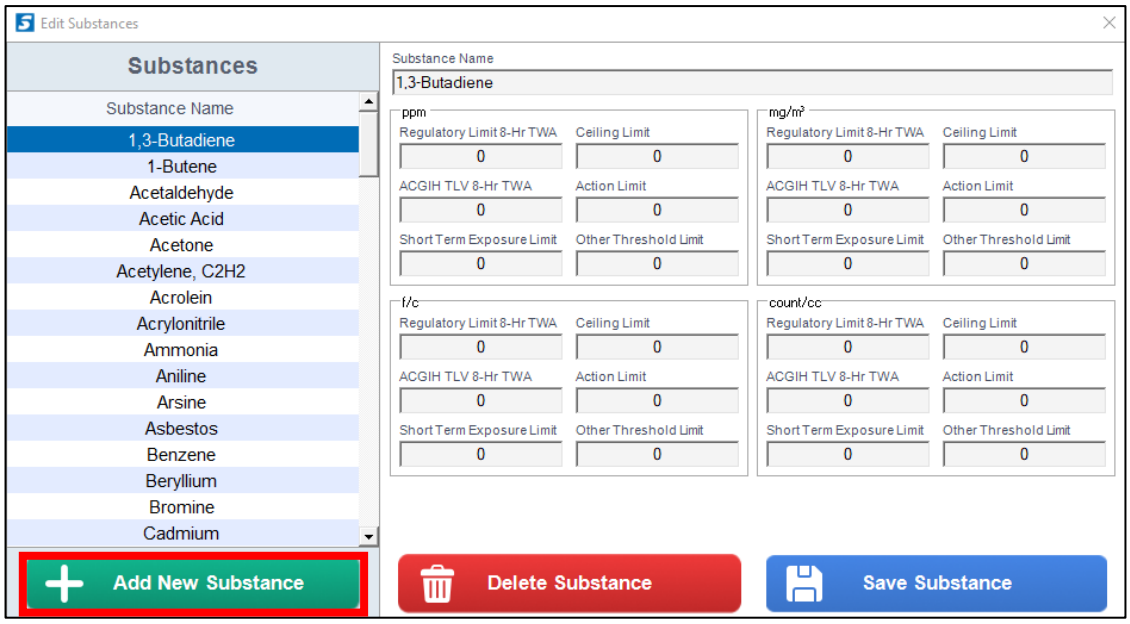
If the calibrator recorded a numbered sample set or a sample duration, then the Data Graph sub-tab will contain a graph of the that data over time.



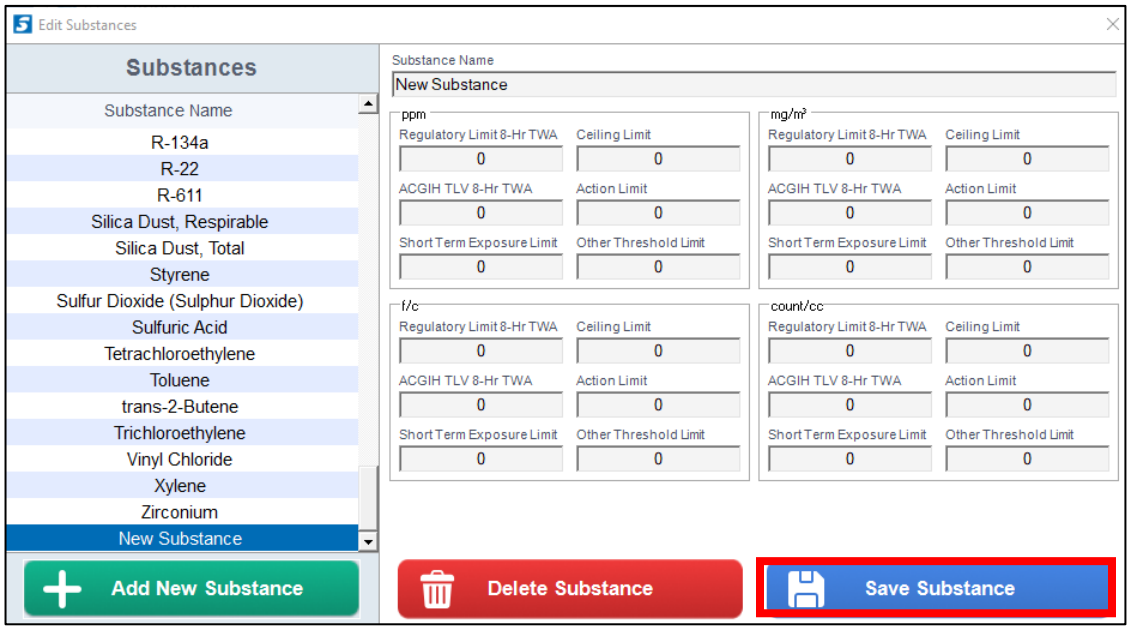
The graph file can be exported as a .png image file for storage or printing.

Target Substances

Gilian CONNECT Pro has provided a list of commonly-sampled substances. From the main page, select the Substances menu item and select edit list. This will open the preloaded list and provide four unit of measurement options for each target substance.



If the substance is not already in the list, select the Add New Substance button.

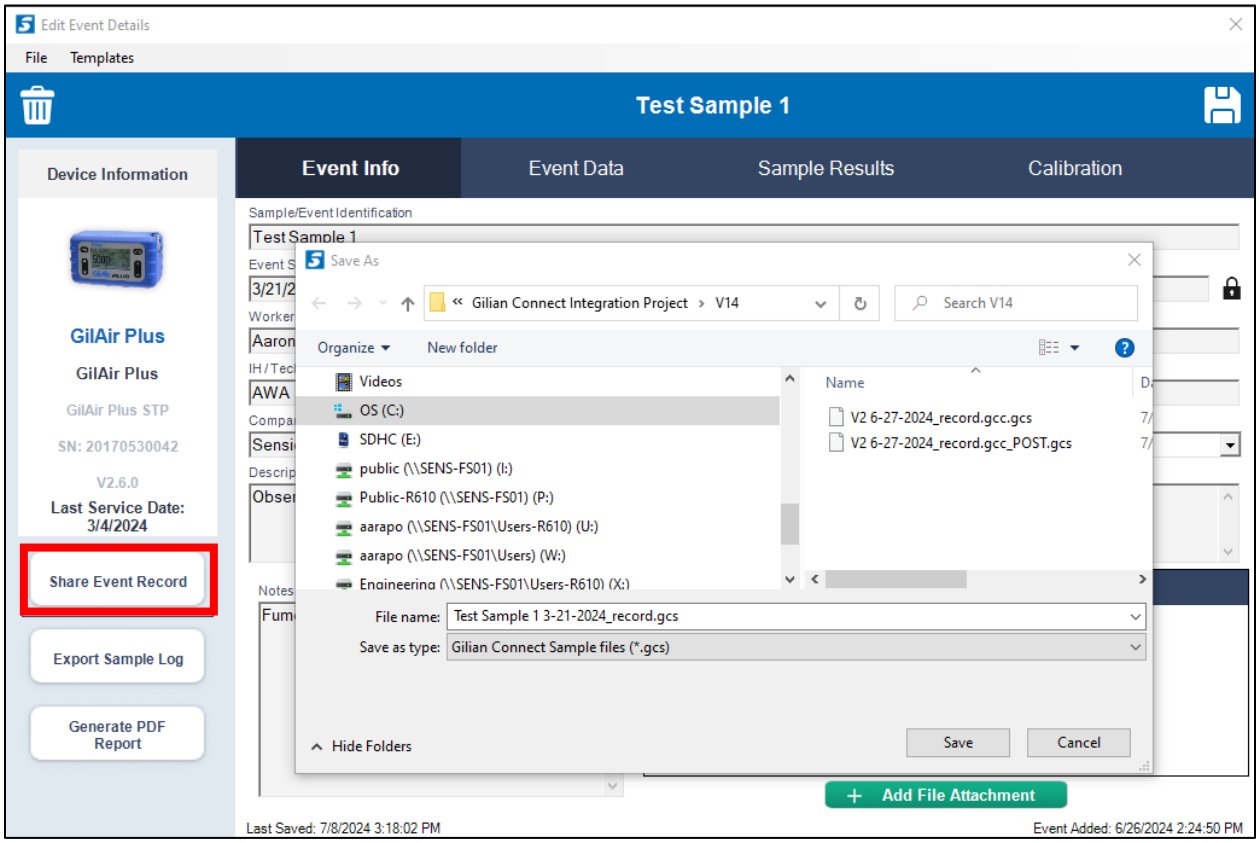


Type in the name of the new Target Substance along with any applicable exposure limits and select the Save Substance button. This will now be available and pre-populated in the Sample Data tab when adding new Sample Results.

Share Event Records

Gilian CONNECT Pro has event record sharing capabilities. Event Records are created in .gcs format for Pump Sampling Events and .gcc format for Air Flow Calibration Events.

Individual records can be saved to file and sent to another user who has Gilian Connect Pro loaded to their PC. The Import File option can be used to import event records into another user's database. Select the Share Event Record button and a window will pop-up allowing you to save record to a file folder you choose.

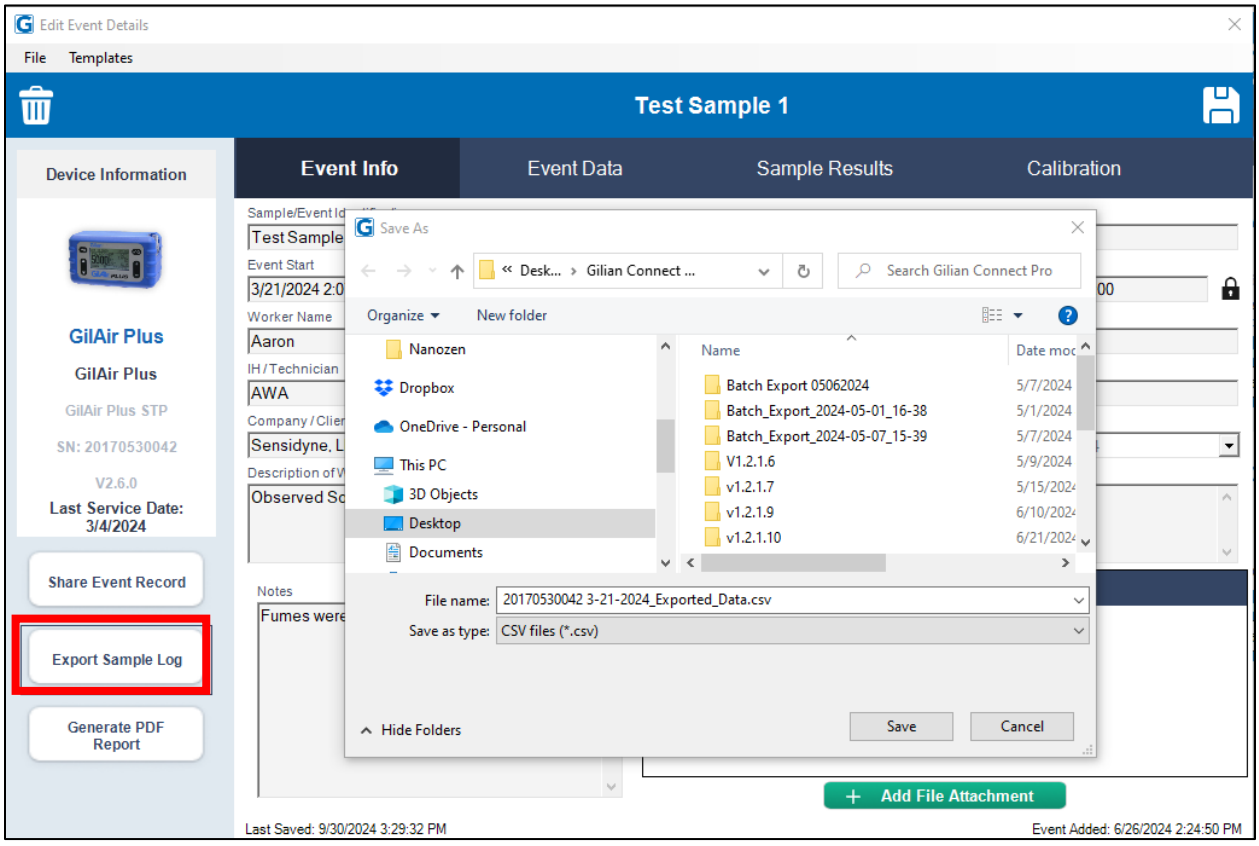


Exporting Data to Excel

Data Points from the pump sampling event or air flow calibration event can be exported to a CSV file (Comma-Separated Values) to facilitate importing the data into Excel, or for viewing event details not displayed in Gilian CONNECT Pro.

Select the Export Sample Log button or Export Calibration Log Button and a window will pop-up allowing you to save the .csv file to a file folder you choose.

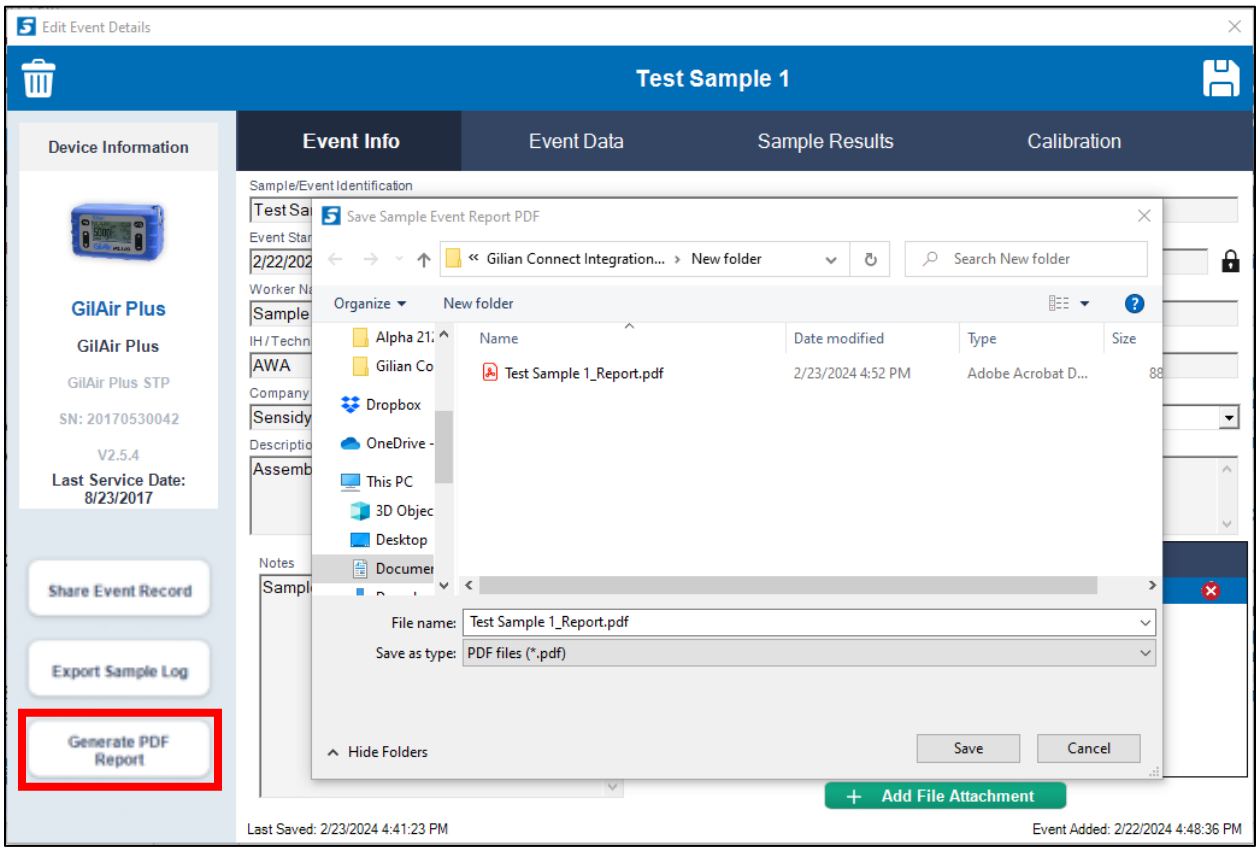
Note: To view the data in Excel, do not double-click the .csv file. Open Excel, then change to All File Types, then select the .csv file, then select "Open File" to import the file. A window will appear that allows for setting the preference to "Tab" as the delimiter character.



Generating PDF Reports

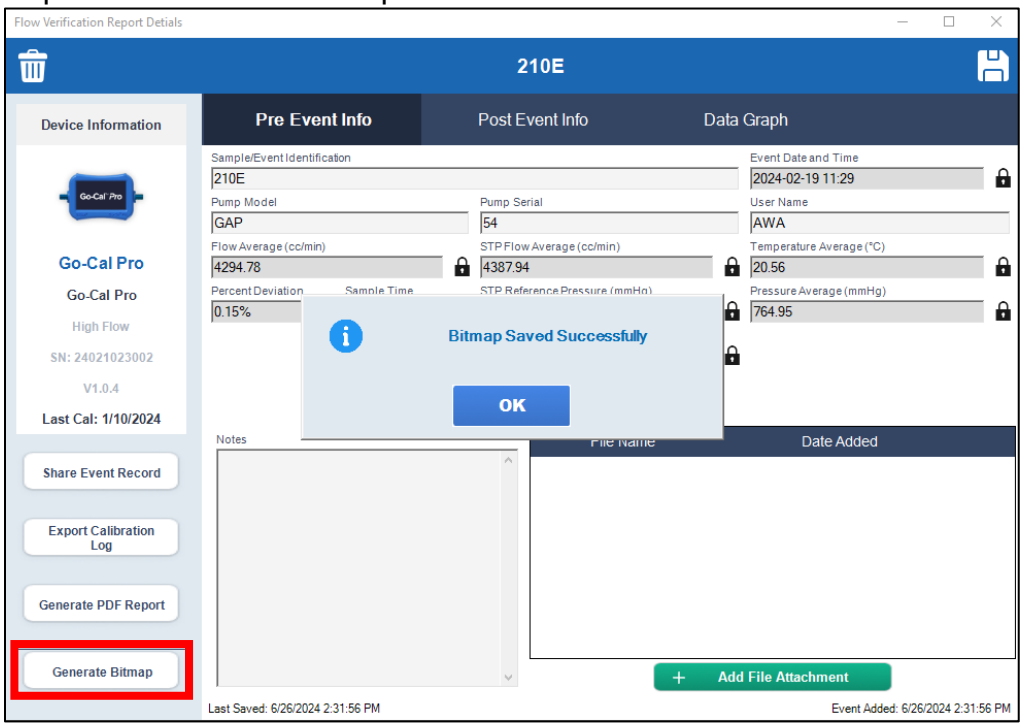
Gilian CONNECT Pro has report generation capabilities. Reports are created in PDF format.

The report includes fields from both the pump sampling event and the linked calibrations records. Alternatively you can generate a report with just air flow calibration event information. Select the Generate PDF Report button and a window will pop-up allowing you to save the .pdf file to a file folder you choose.

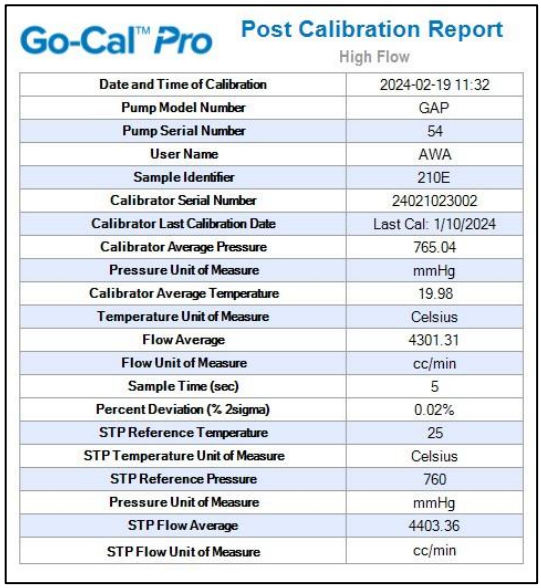


Generating Bitmap Reports

Gilian CONNECT Pro has air flow calibration event Bitmap capabilities. Bitmap Reports are created in .bmp format.



Select the Generate Bitmap button and a window will pop-up allowing you to save the .bmp file to a file folder you choose.



Go-Cal™ Pro Post Calibration Report

High Flow

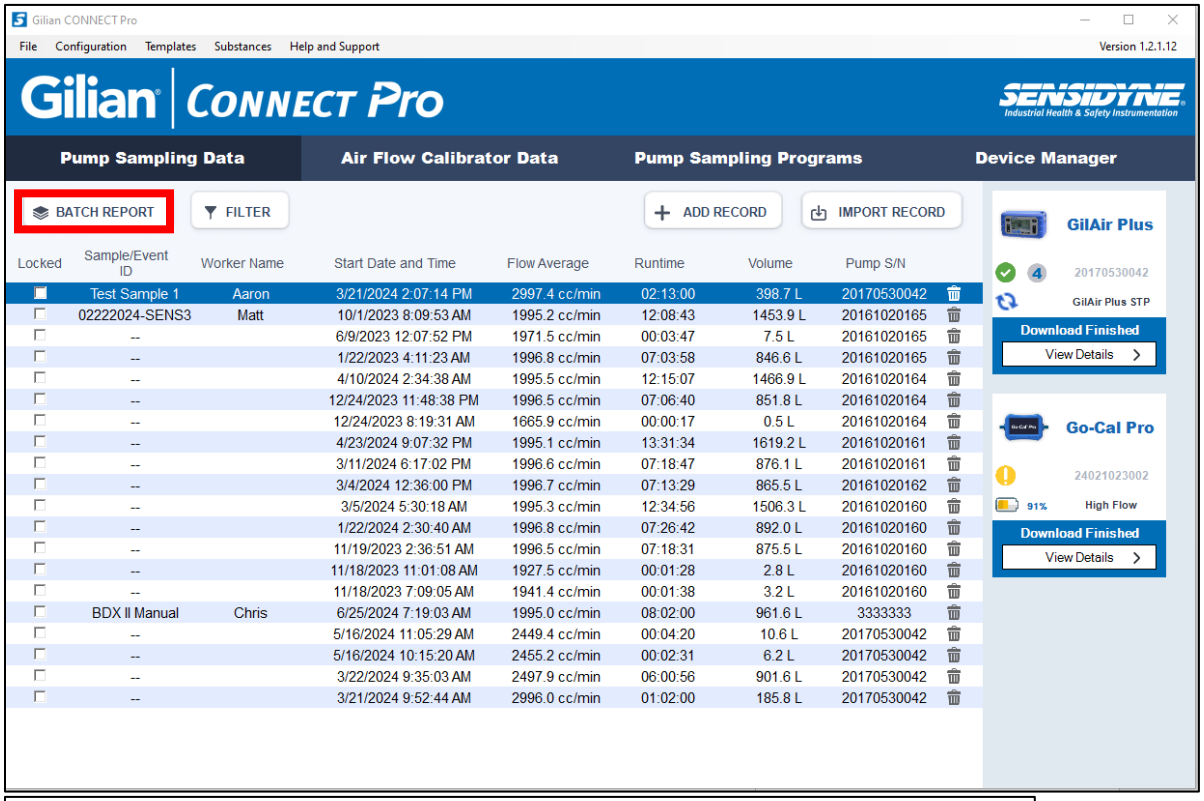
Date and Time of Calibration	2024-02-19 11:32
Pump Model Number	GAP
Pump Serial Number	54
User Name	AWA
Sample Identifier	210E
Calibrator Serial Number	24021023002
Calibrator Last Calibration Date	Last Cal: 1/10/2024
Calibrator Average Pressure	765.04
Pressure Unit of Measure	mmHg
Calibrator Average Temperature	19.98
Temperature Unit of Measure	Celsius
Flow Average	4301.31
Flow Unit of Measure	cc/min
Sample Time (sec)	5
Percent Deviation (% 2sigma)	0.02%
STP Reference Temperature	25
STP Temperature Unit of Measure	Celsius
STP Reference Pressure	760
Pressure Unit of Measure	mmHg
STP Flow Average	4403.36
STP Flow Unit of Measure	cc/min

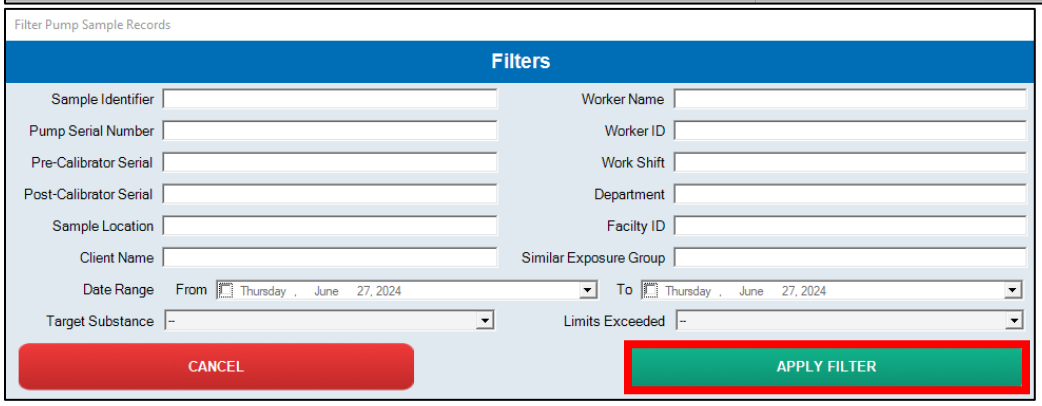
The report includes fields from the air flow calibration event information as viewed on the Go-Cal Pro device.

Generating Batch Reports

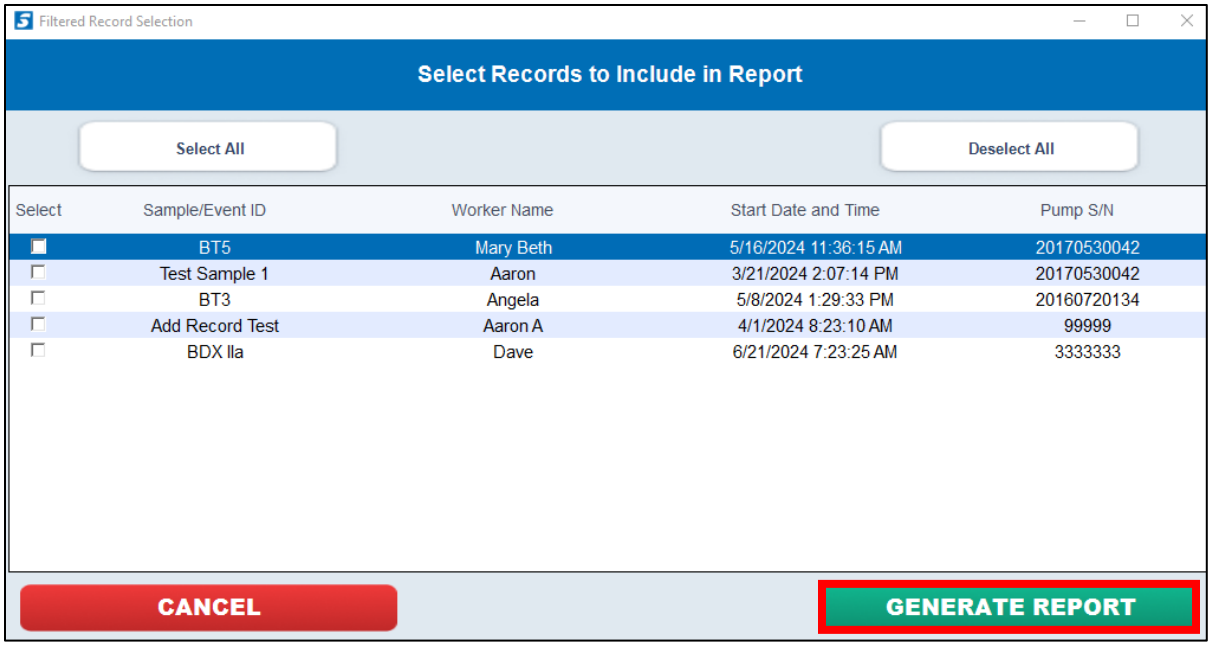
Gilian CONNECT Pro has Batch report generation capabilities. . A master Batch Report in .csv format is created that allows for comparison of the selected events. Individual event reports are created in both .csv and .pdf formats for the filtered events that were selected.

The report includes fields from both the pump sampling events and the linked calibrations records. Select the Batch Report button and a window will pop-up allowing you to query based on a sampling event field.



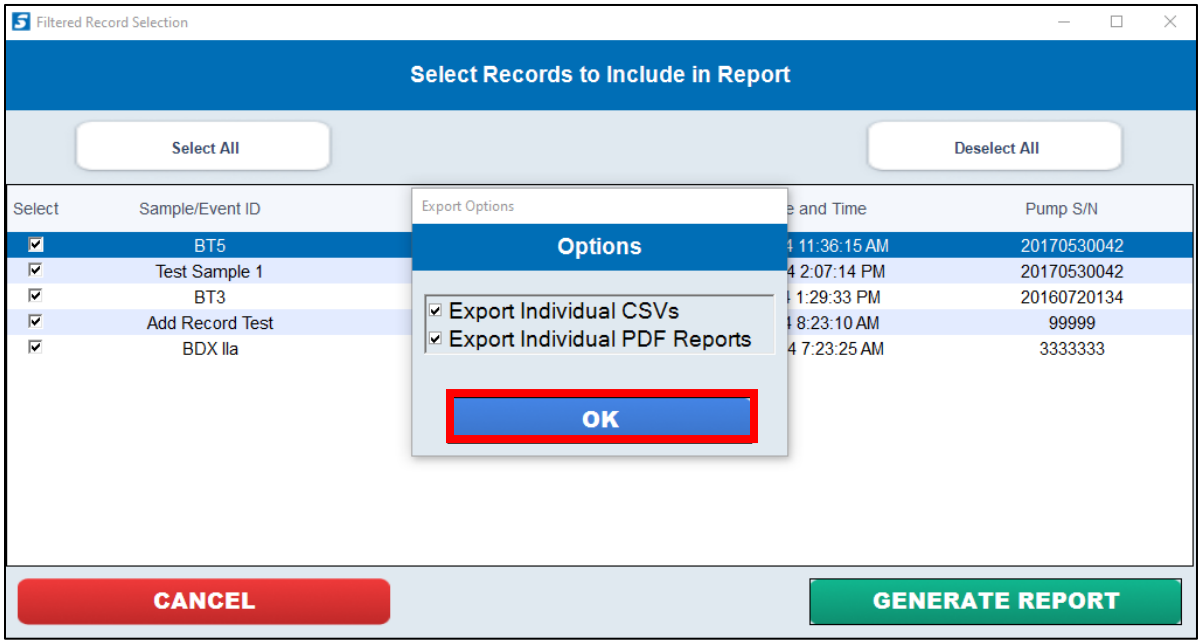


Enter in one or more fields, and click the Apply Filter button. The event(s) that meet the parameters of the filter will be displayed within the next pop-up window.

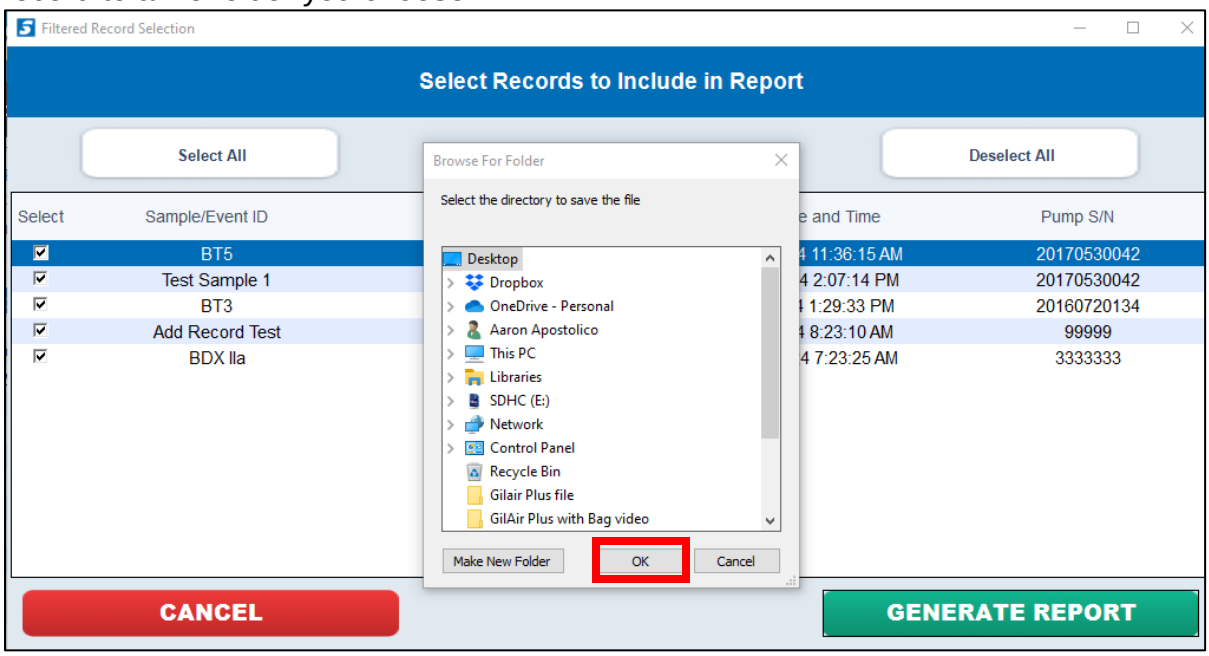


Select from the filtered list by selecting the open boxes for each record to be included in the Batch Report. A checkmark will appear in that box. Alternatively you may use the Select All button to put checkmarks into all displayed records and select any records to be excluded by unselecting an event with a checked box.

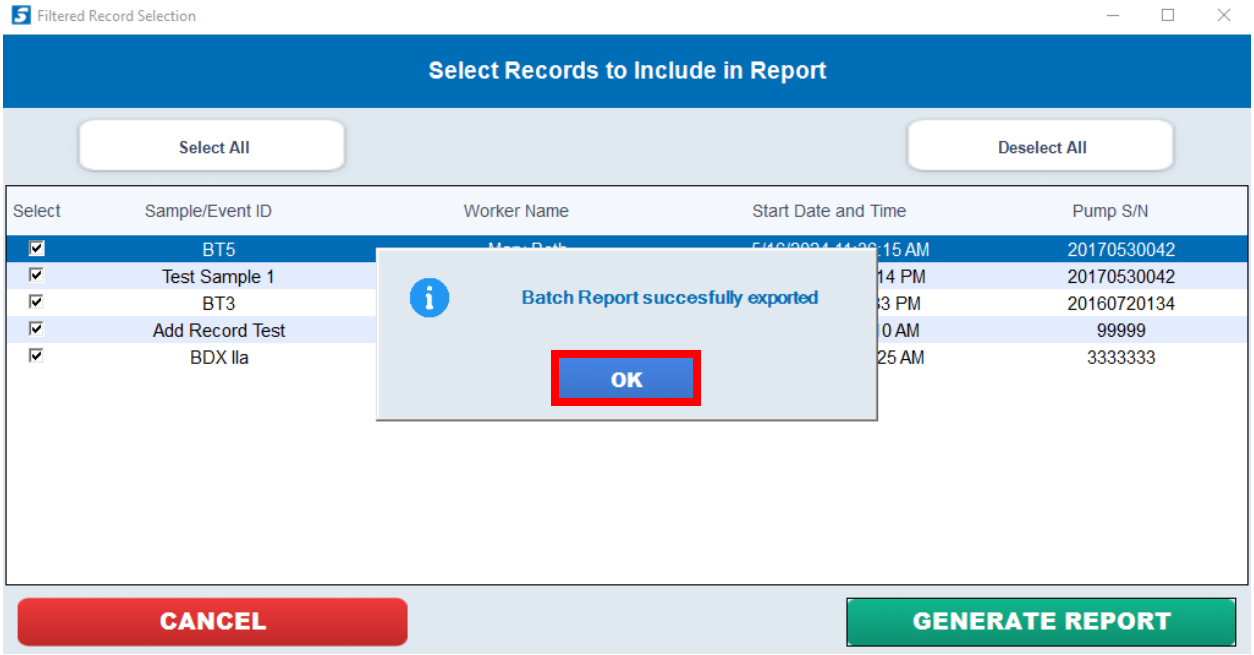
When all desired events are marked, select the Generate Report button. A window will appear that allows the files to also be created in individual .csv reports or individual .pdf reports, as well as the Master Batch Report in .csv format. You can select either of the two formats, one of the two formats or unselect both in individual event reports are not needed.



Select the OK button and a window will pop-up allowing you to save the Batch Report record to a file folder you choose.

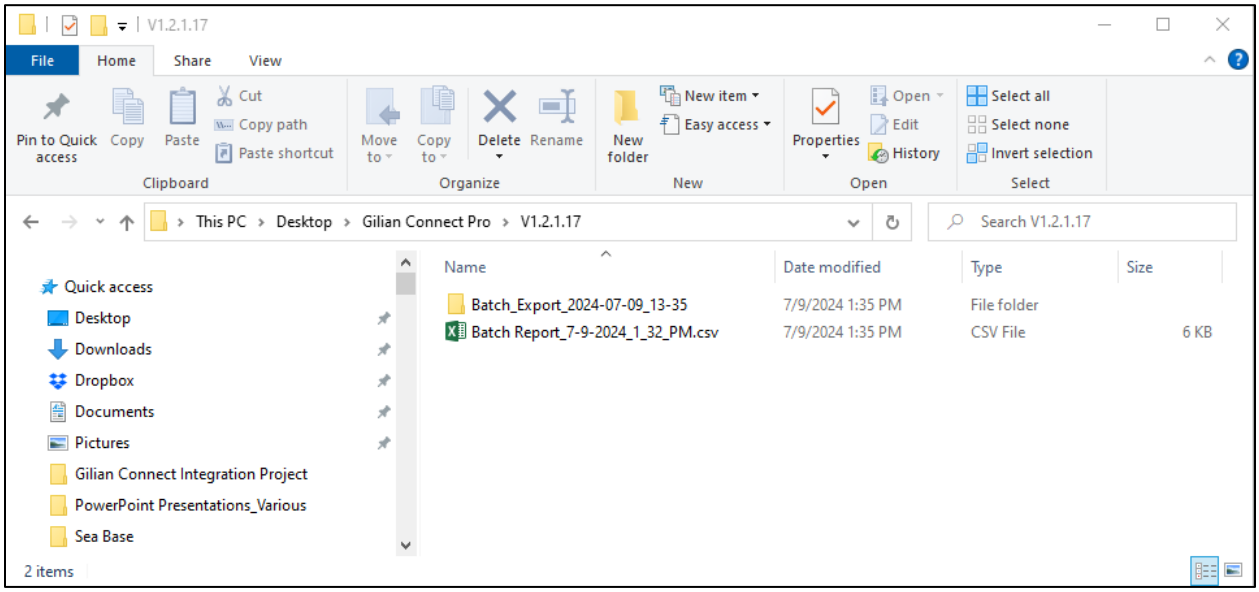


Browse for an existing folder or make a new folder to save your batch report files. Select OK to initiate the export.

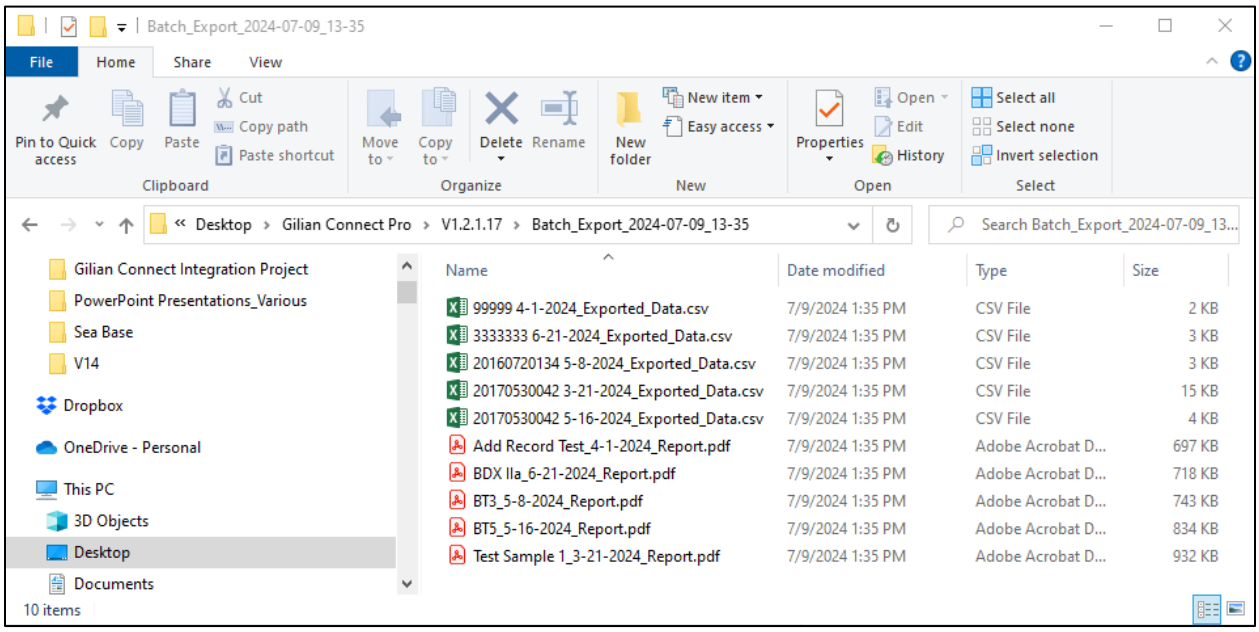


A window will appear confirming the Batch Report was successfully exported to the desired folder location.

Open a browser window and go to the selected file folder to view the reports. The Master Batch Report will appear under the Batch Export file folder and will be dated with the time and date that the file was created from the Gilian Connect Pro application.

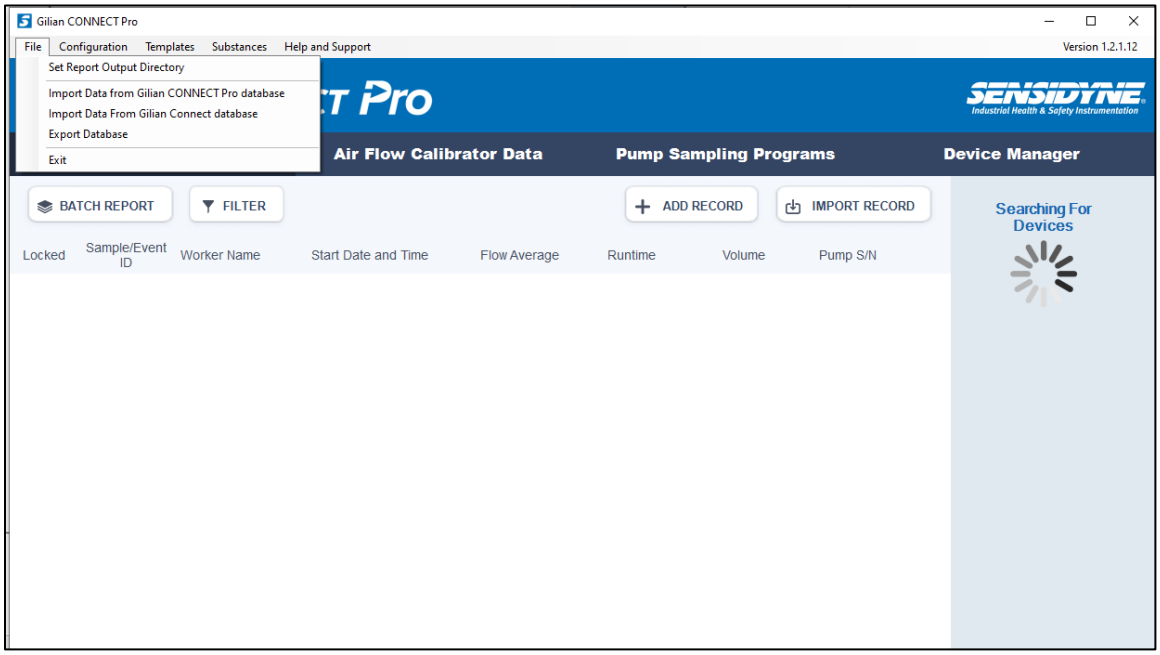


The Batch Export Folder will contain all of the individual .csv and .pdf reports.

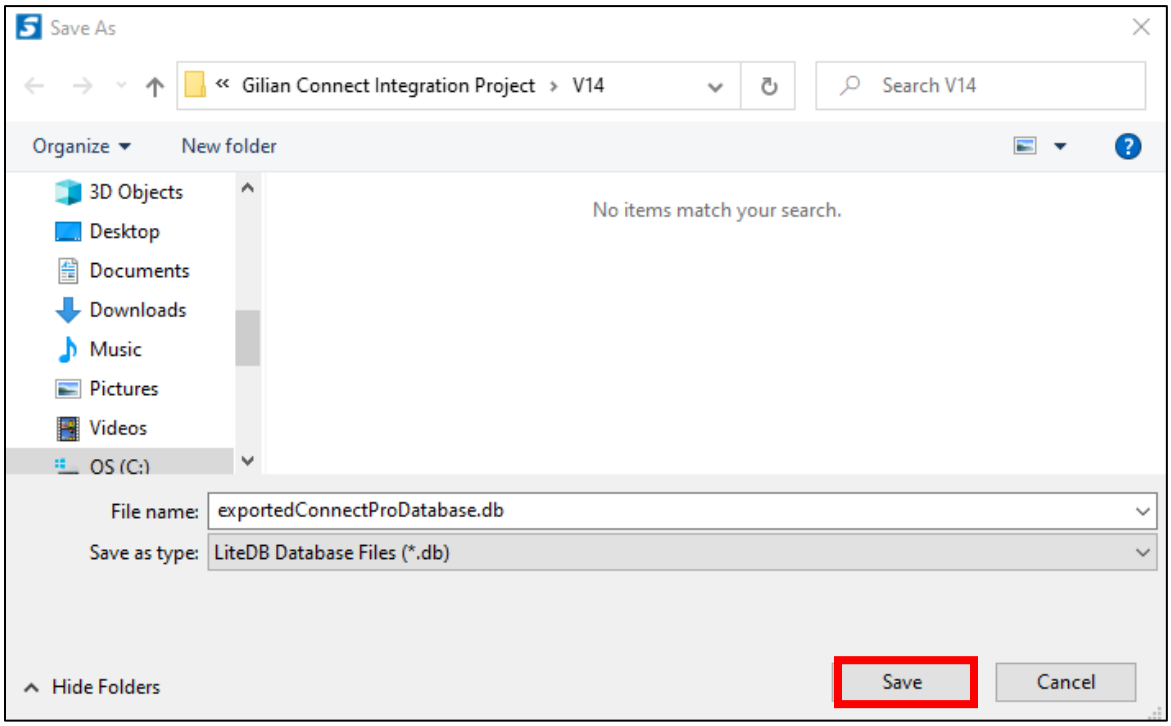


Exporting and Importing Databases

Gilian Connect Pro can export the current database by selecting the File menu dropdown options, and then selecting Export Database.



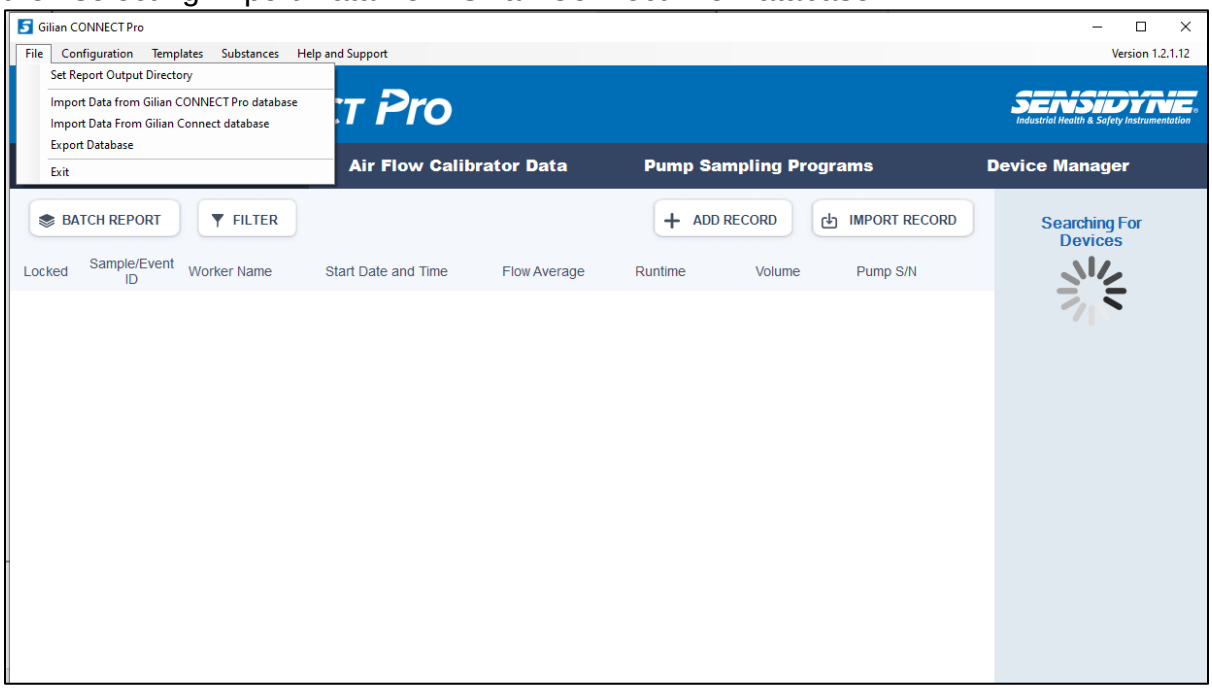
A browser window will appear that will allow you to save the database into a folder you choose or create.



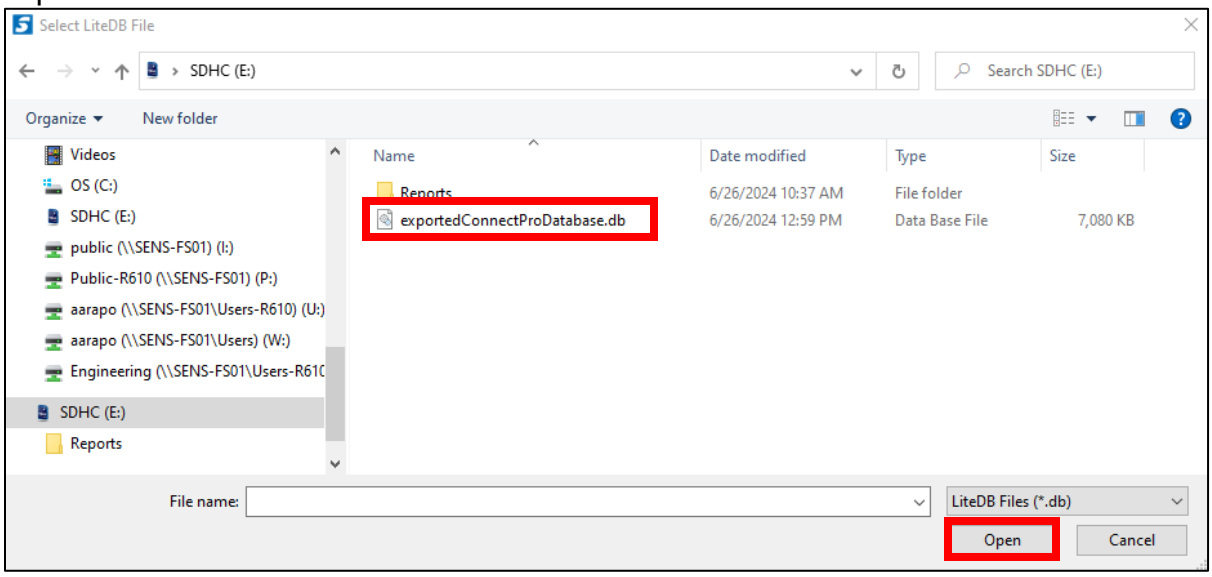
The database file with extension .db can then be sent to another Gilian Connect Pro user who may import those all or select records into their Gilian Connect Pro database on their PC.

Note: A Database backup file is automatically created upon initiating the program.

To import a Gilian Connect Pro Database select the File menu dropdown options, and then selecting Import Data from Gilian Connect Pro Database.

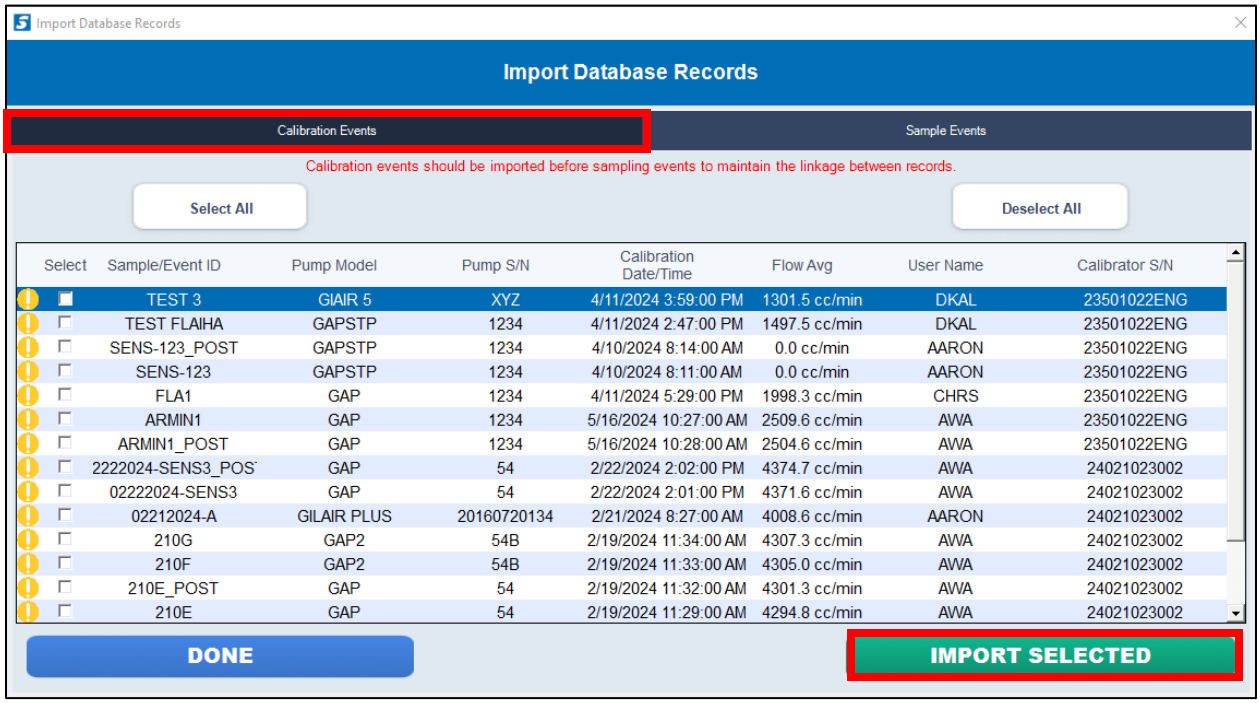


A browser window will appear that will allow you to select the database you choose to import.



Select a Lite DB file (.db) and then select Open.

A window will appear with a list of all the Air Flow Calibration Event and Pump Sampling Event records that were in the database file.



Select	Sample/Event ID	Pump Model	Pump S/N	Calibration Date/Time	Flow Avg	User Name	Calibrator S/N
	TEST 3	GIAIR 5	XYZ	4/11/2024 3:59:00 PM	1301.5 cc/min	DKAL	23501022ENG
	TEST FLAIHA	GAPSTP	1234	4/11/2024 2:47:00 PM	1497.5 cc/min	DKAL	23501022ENG
	SENS-123_POST	GAPSTP	1234	4/10/2024 8:14:00 AM	0.0 cc/min	AARON	23501022ENG
	SENS-123	GAPSTP	1234	4/10/2024 8:11:00 AM	0.0 cc/min	AARON	23501022ENG
	FLA1	GAP	1234	4/11/2024 5:29:00 PM	1998.3 cc/min	CHRS	23501022ENG
	ARMIN1	GAP	1234	5/16/2024 10:27:00 AM	2509.6 cc/min	AWA	23501022ENG
	ARMIN1_POST	GAP	1234	5/16/2024 10:28:00 AM	2504.6 cc/min	AWA	23501022ENG
	2222024-SENS3_POS	GAP	54	2/22/2024 2:02:00 PM	4374.7 cc/min	AWA	24021023002
	02222024-SENS3	GAP	54	2/22/2024 2:01:00 PM	4371.6 cc/min	AWA	24021023002
	02212024-A	GILAIR PLUS	20160720134	2/21/2024 8:27:00 AM	4008.6 cc/min	AARON	24021023002
	210G	GAP2	54B	2/19/2024 11:34:00 AM	4307.3 cc/min	AWA	24021023002
	210F	GAP2	54B	2/19/2024 11:33:00 AM	4305.0 cc/min	AWA	24021023002
	210E_POST	GAP	54	2/19/2024 11:32:00 AM	4301.3 cc/min	AWA	24021023002
	210E	GAP	54	2/19/2024 11:29:00 AM	4294.8 cc/min	AWA	24021023002

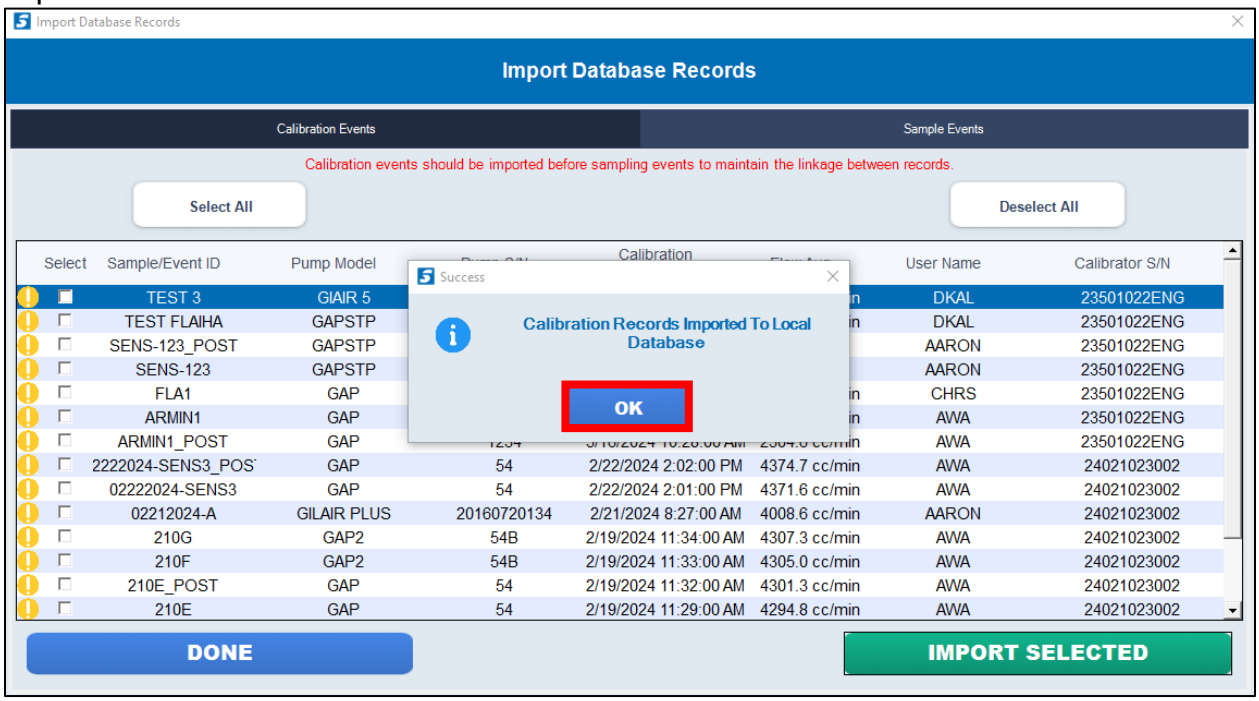
Note: It is recommended to import all Calibration Events prior to importing any of the Sample Events to maintain any linkages that were established in the database being imported.

Select individual Calibration Event files from the list by selecting the open boxes for each record to be included in the Import. A checkmark will appear in that box. Alternatively you may use the Select All button to put checkmarks into all displayed records and select any records to be excluded by unselecting an event with a checked box.

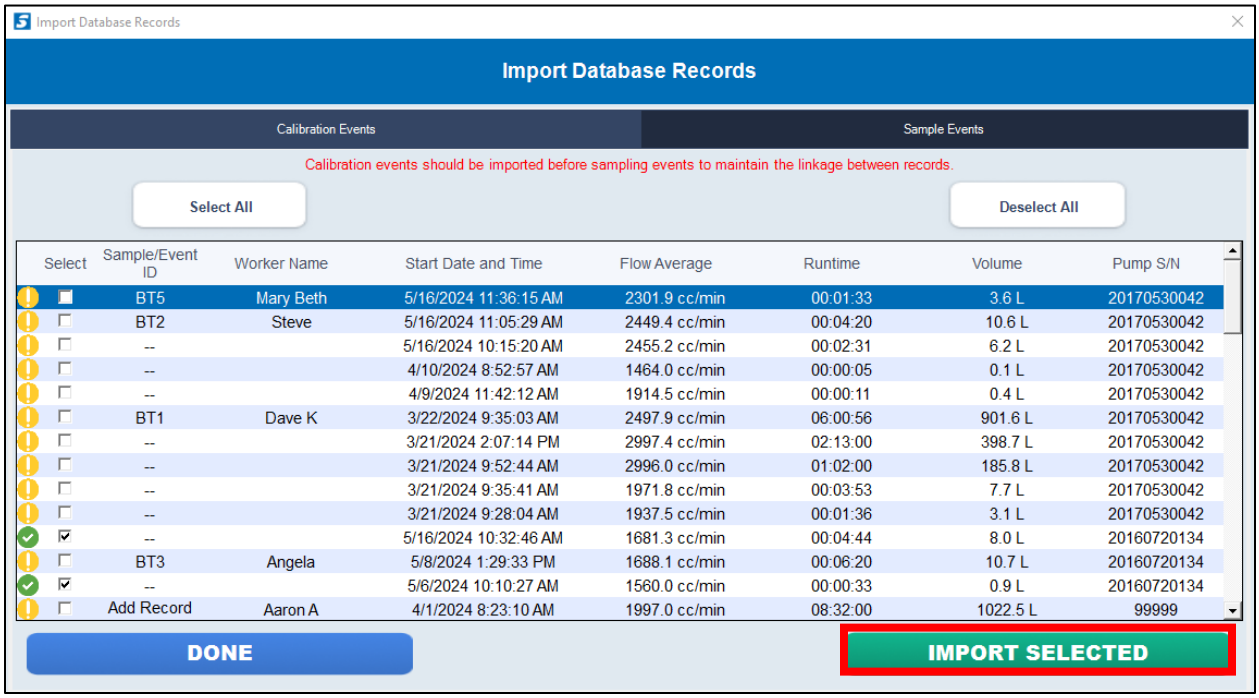
A yellow exclamation mark icon may appear in front of the box. This indicates some error may be present. Hover over the icon and a message will appear stating the identified issue. A box may not be selected when a yellow exclamation mark icon is present. A green checkmark icon indicates that the record has no conflicts and can be imported.

When all desired events are marked, select the Import Selected button.

A pop-up window will appear confirming that the Calibration Records have been imported to the local database.



Select the OK button and proceed with importing the Sample Event records.

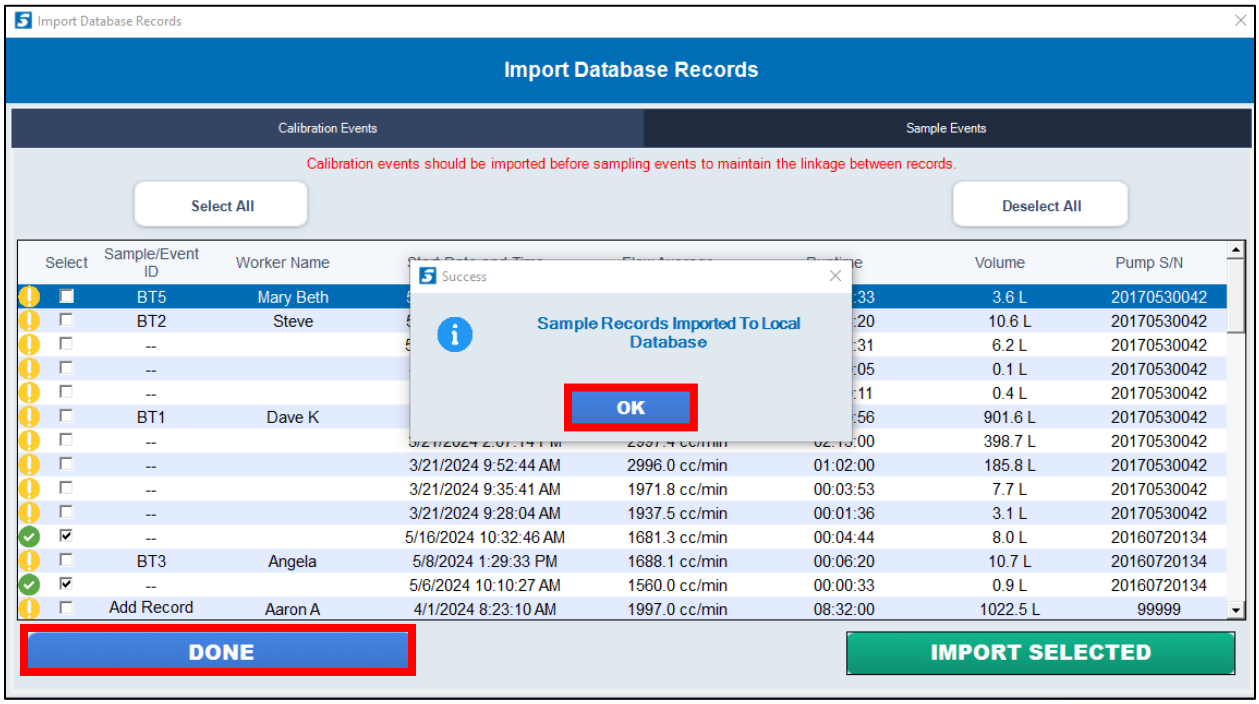


Select individual Sample Event files from the list by selecting the open boxes for each record to be included in the Import. A checkmark will appear in that box. Alternatively you may use the Select All button to put checkmarks into all displayed records and select any records to be excluded by unselecting an event with a checked box.

A yellow exclamation mark icon may appear in front of the box. This indicates some error may be present. Hover over the icon and a message will appear stating the identified issue. A box may not be selected when a yellow exclamation mark icon is present. A green checkmark icon indicates that the record has no conflicts and can be imported.

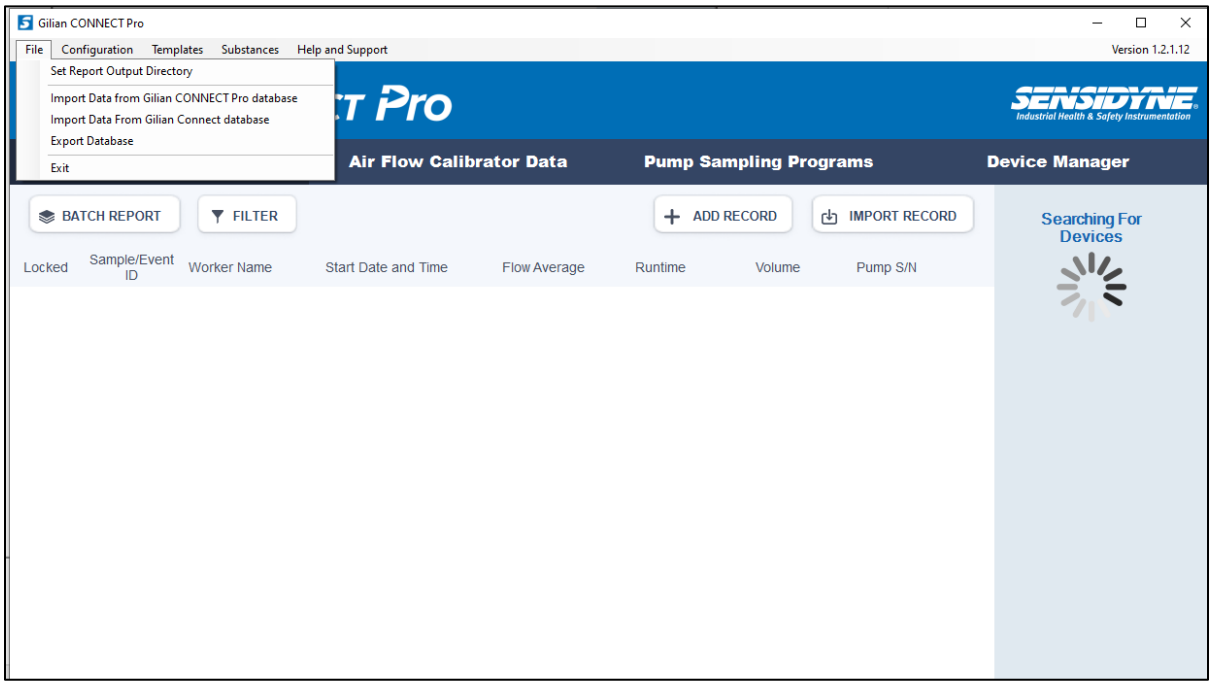
When all desired events are marked, select the Import Selected button.

A pop-up window will appear confirming that the Sample Records have been imported to the local database.

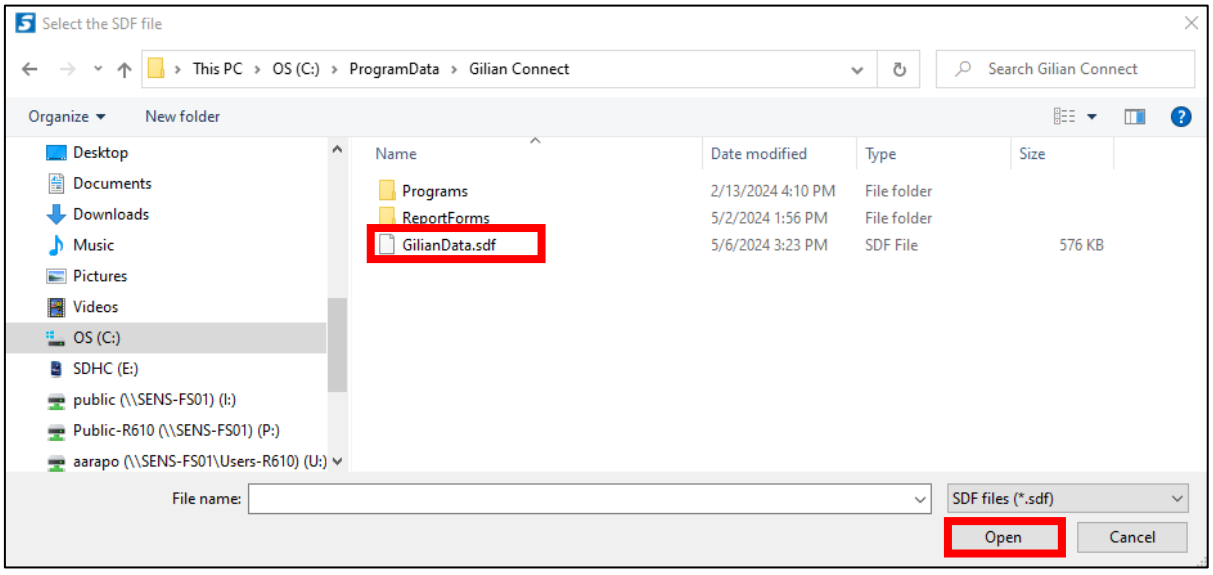


Select the OK button and then select the Done button to exit the Import Database window.

To import an older Gilian Connect Database select the File menu dropdown options, and then selecting Import Data from Gilian Connect Database.

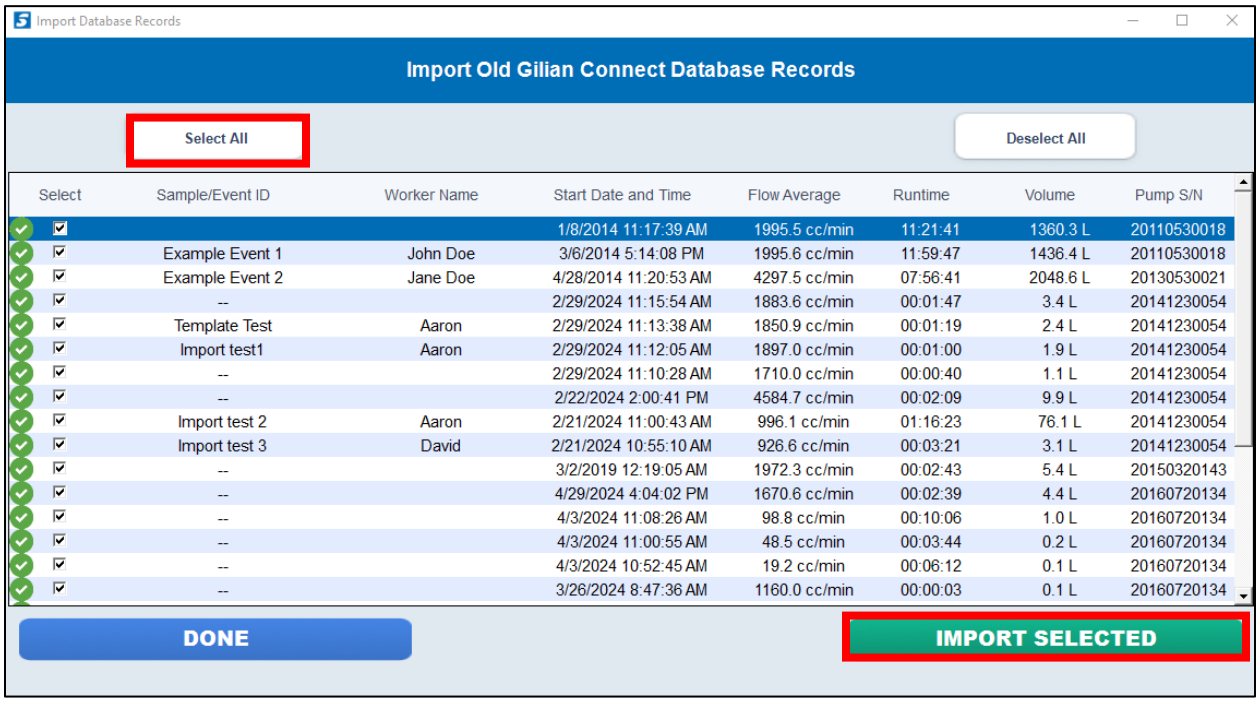


A browser window will appear that will allow you to select the database you choose to import.



Select a SDF file (.sdf) and then select Open.

A window will appear with a list of all the Sample Event records that were in the database file.

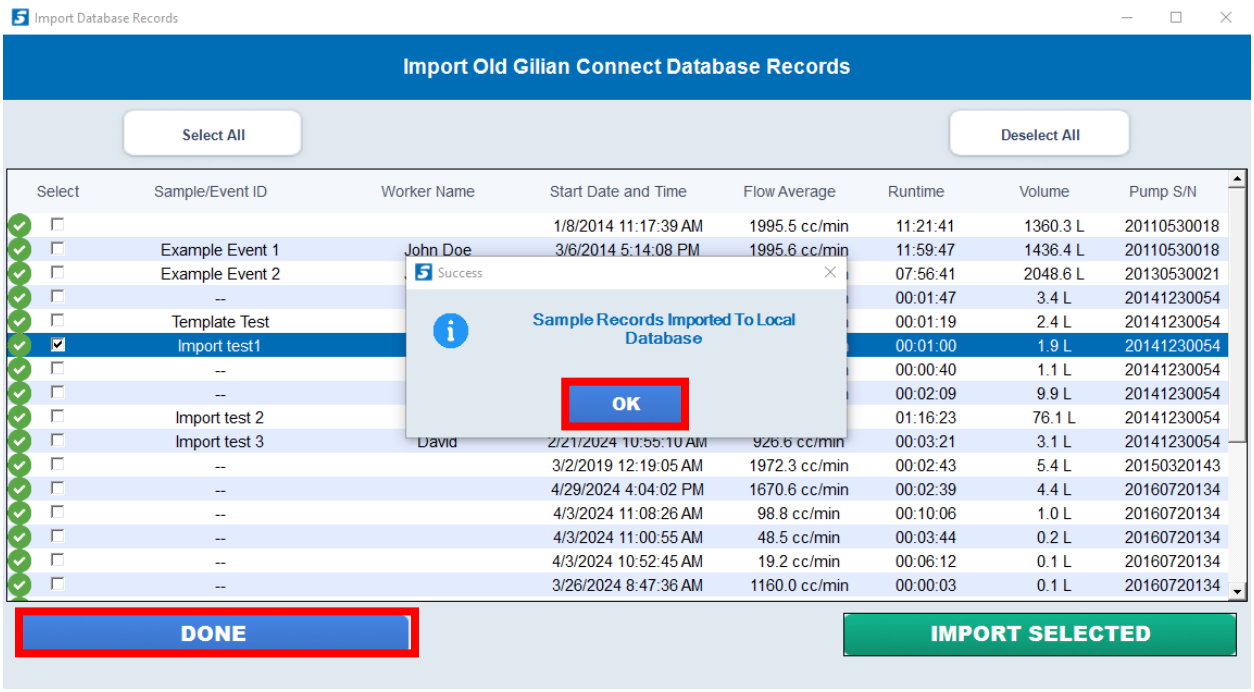


Select individual Sample Event files from the list by selecting the open boxes for each record to be included in the Import. A checkmark will appear in that box. Alternatively you may use the Select All button to put checkmarks into all displayed records and select any records to be excluded by unselecting an event with a checked box.

A yellow exclamation mark icon may appear in front of the box. This indicates some error may be present. Hover over the icon and a message will appear stating the identified issue. A box may not be selected when a yellow exclamation mark icon is present. A green checkmark icon indicates that the record has no conflicts and can be imported.

When all desired events are marked, select the Import Selected button.

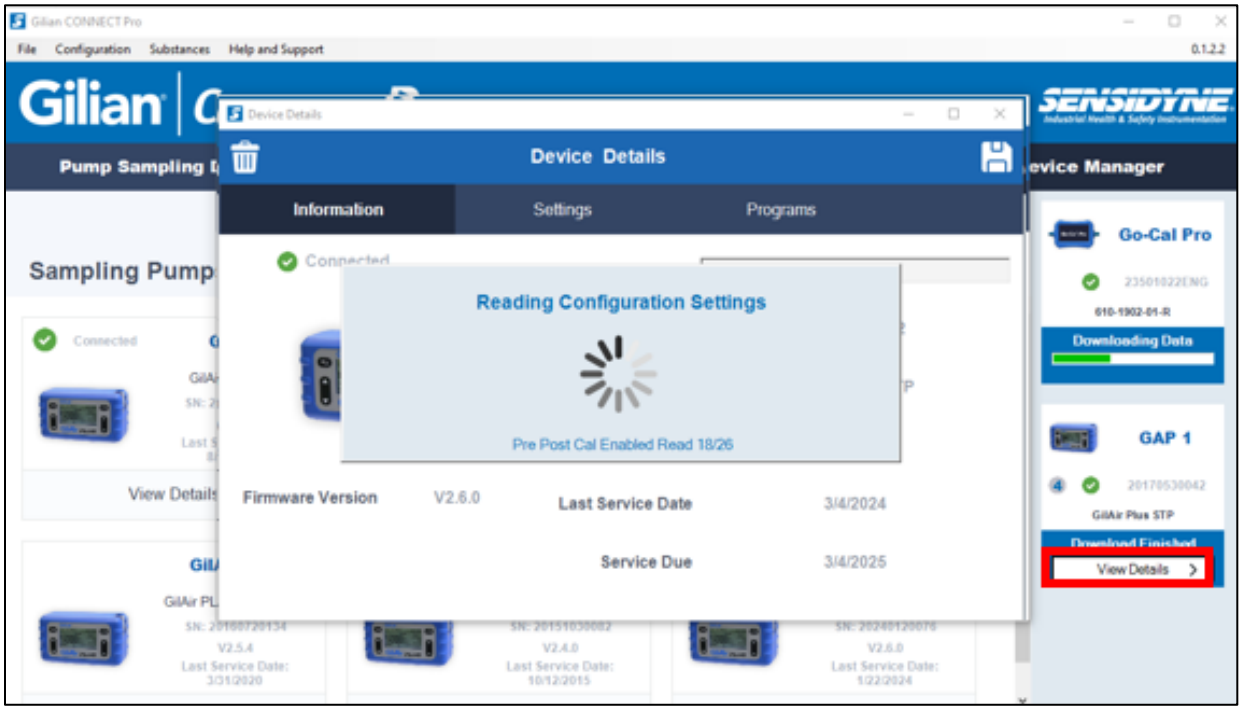
A pop-up window will appear confirming that the Sample Records have been imported to the local database.



Select the OK button and then select the Done button to exit the Import Database window.

Pump Configuration Management

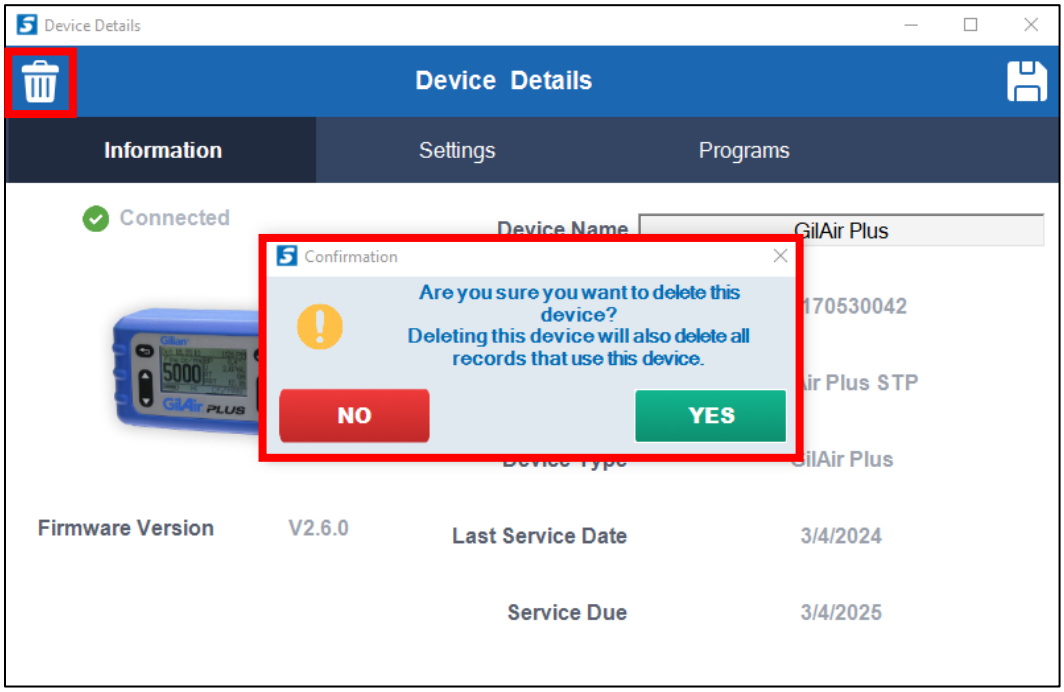
Air sampling pumps can be configured within the Device Details window. Select the View Details button on the connected pump, or access through the Device Manager tab on the main screen.



Connect Pro will read the current configuration of the pump and populate the details.

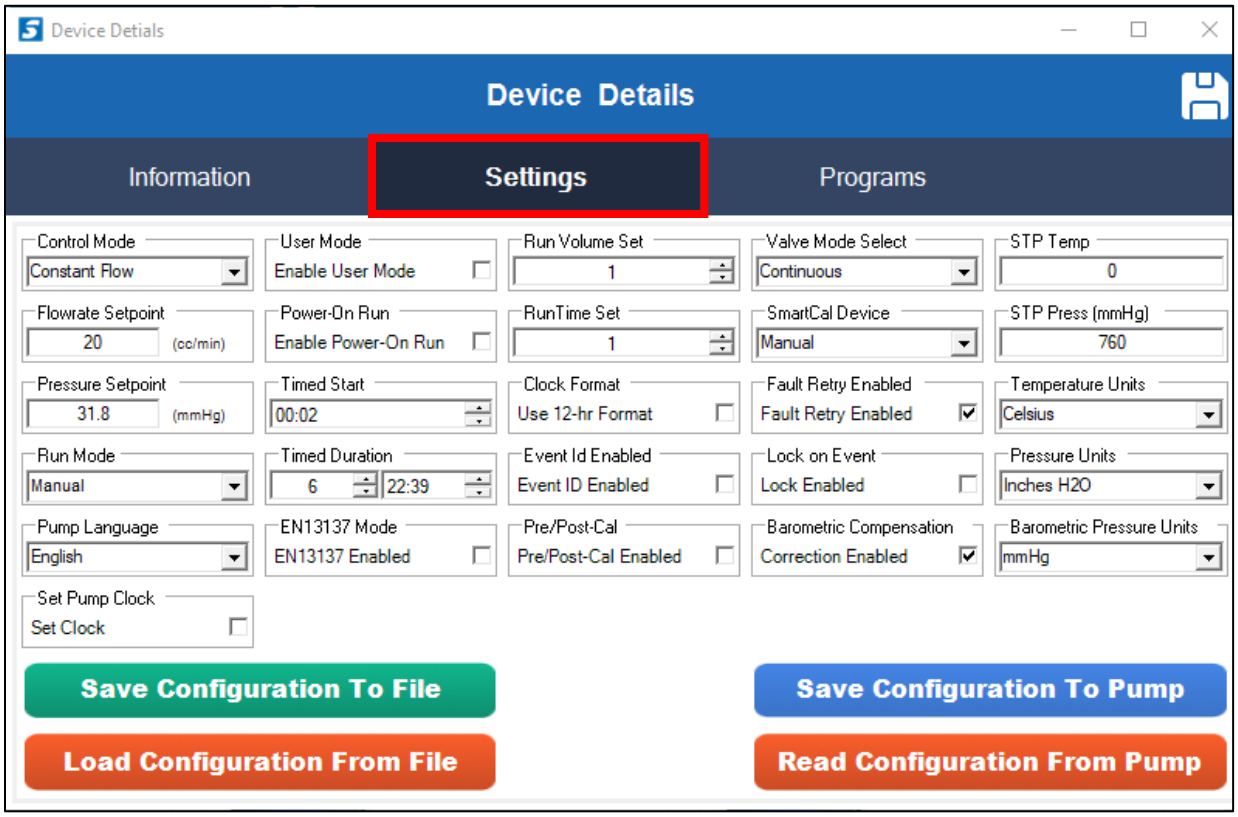
Within the Device Details window, three sub-tabs are available.

The Information sub-tab allows the Device Name to be changed. It also provides information on the Model, Device Type, Serial Number, Firmware Version, and Last Service Date.



Note: Individual devices can be deleted from the Device Detail Screen. If device is deleted, it will also delete any records that were previously tied to that device. A pop-up will appear to confirm that deletion of device and records is required.

Select the Settings sub-tab and configure the settings for the pump.

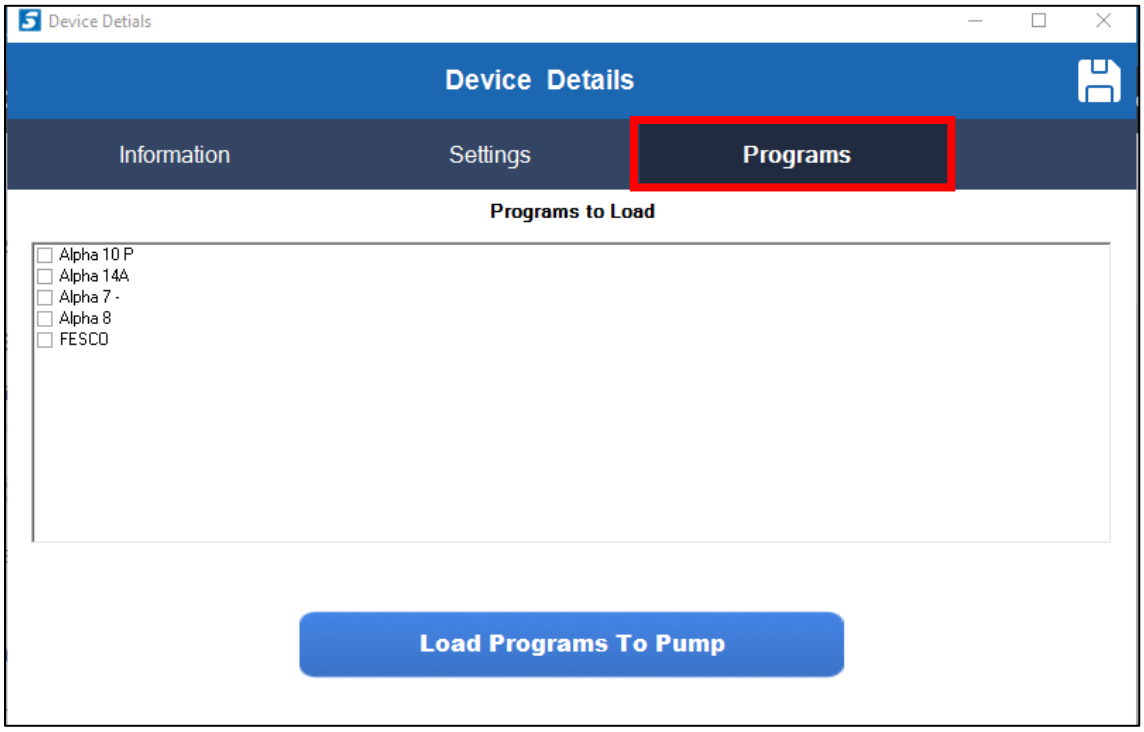


When complete, select the Save Configuration To Pump button to load the configuration settings into the pump.

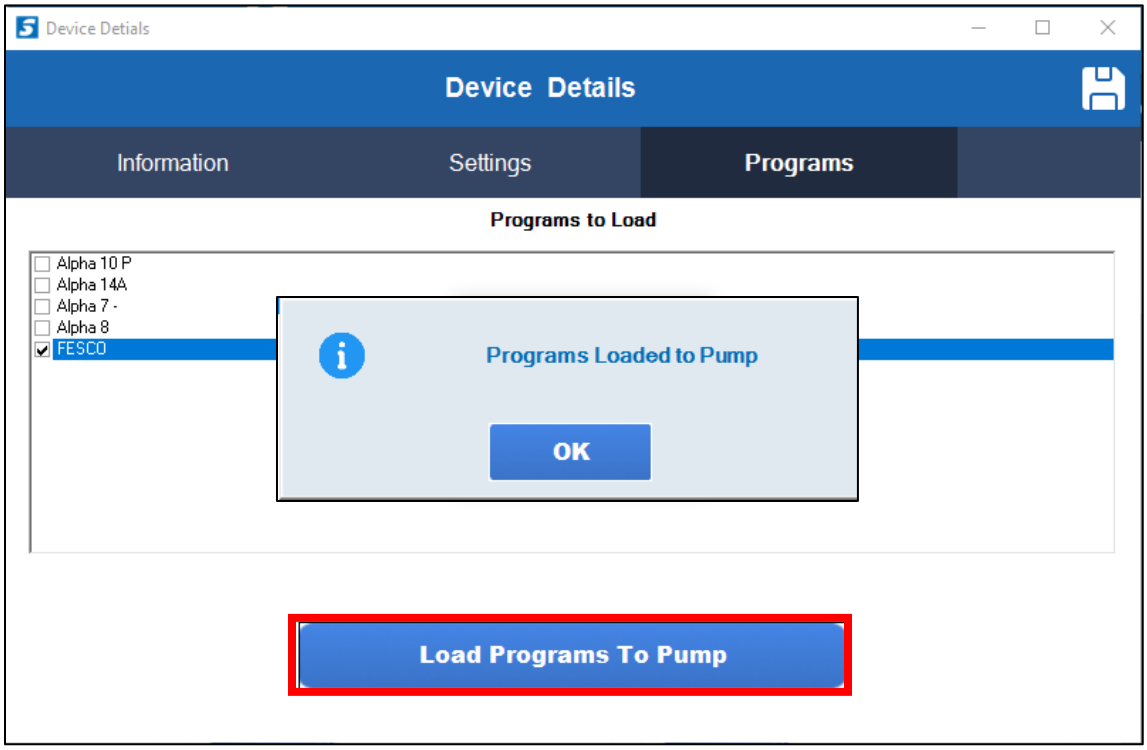
The Configuration can also be saved to file and then sent to another Connect Pro User. Additionally, a pump configuration file can be loaded from file and then saved to the selected pump.

If a change to the pumps configuration was performed manually, the pumps configuration can be reloaded by selecting the Read Configuration From Pump button.

Select the Programs sub-tab.



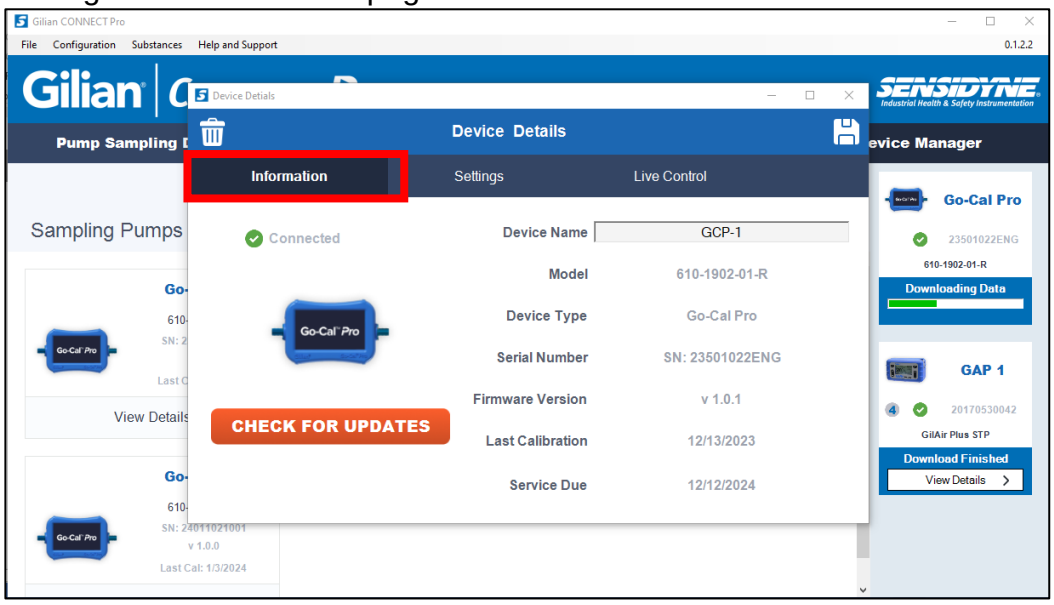
A list of all available programs will appear, which can be selected and loaded to that specific pump.



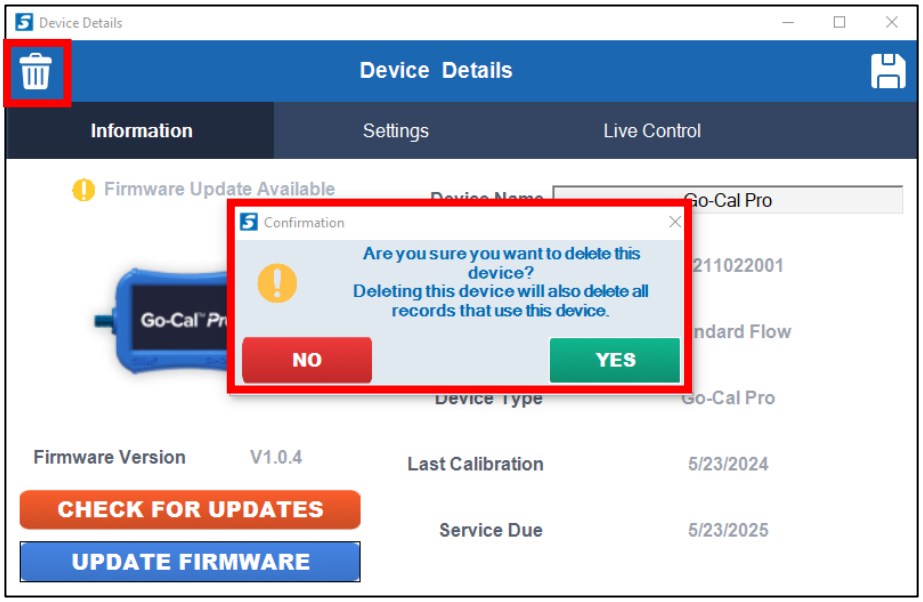
Check the box adjacent to the desired program and then select the Load Programs To Pump Button to initiate. A confirmation window will appear once the programs loaded.

Calibrator Configuration Management

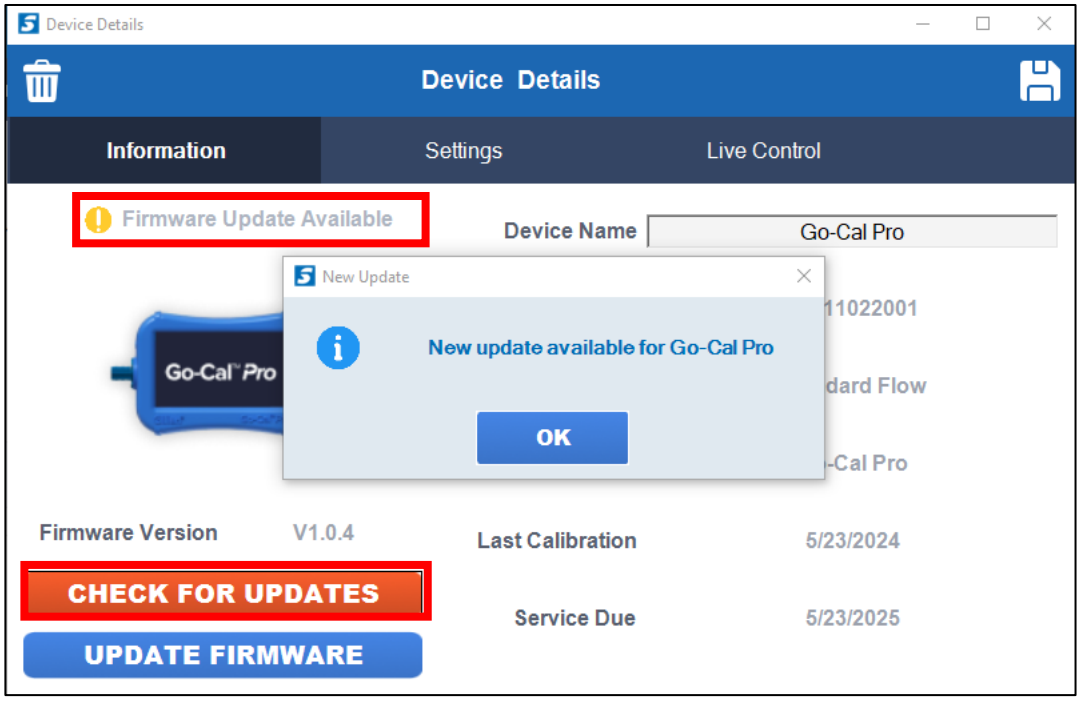
Air Flow Calibrators can be configured within the Device Details window. Select the View Details button on the connected calibrator, or access through the Device Manager tab on the main page.



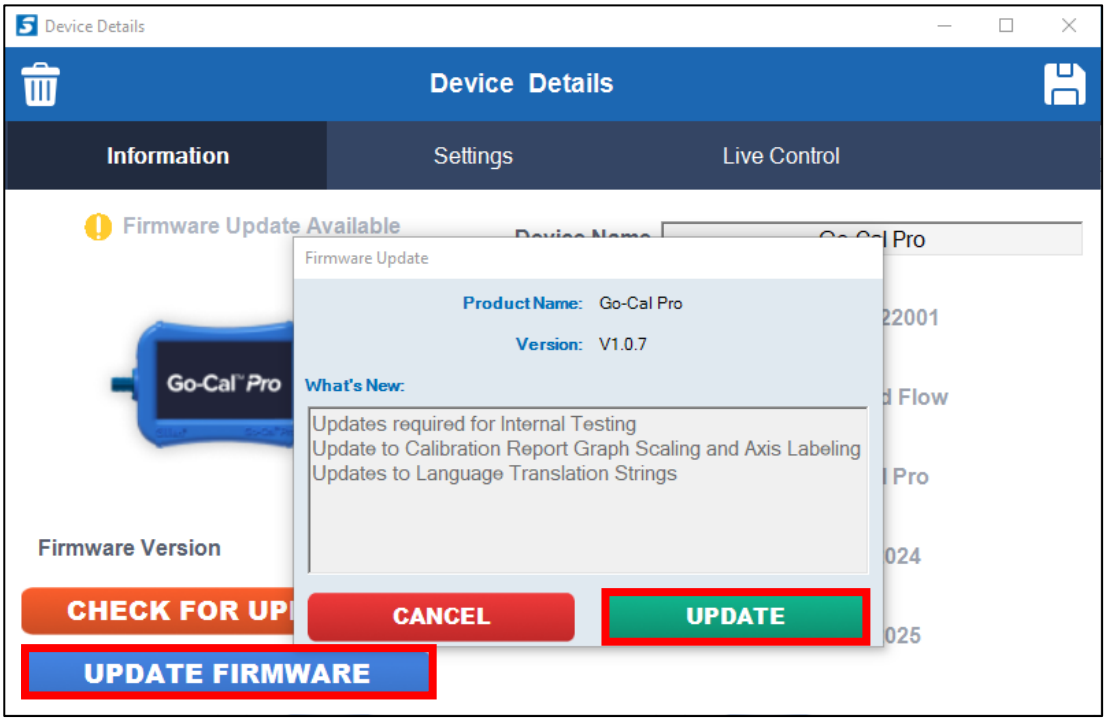
Within the Device Details window, three sub-tabs are available. The Information sub-tab allows the Device Name to be changed. It also provides information on the Model, Device Type, Serial Number, Firmware Version, Last Calibration date and a recommended Service Due date.



Note: Individual devices can be deleted from the Device Detail Screen. If device is deleted, it will also delete any records that were previously tied to that device. A pop-up will appear to confirm that deletion of device and records is required.

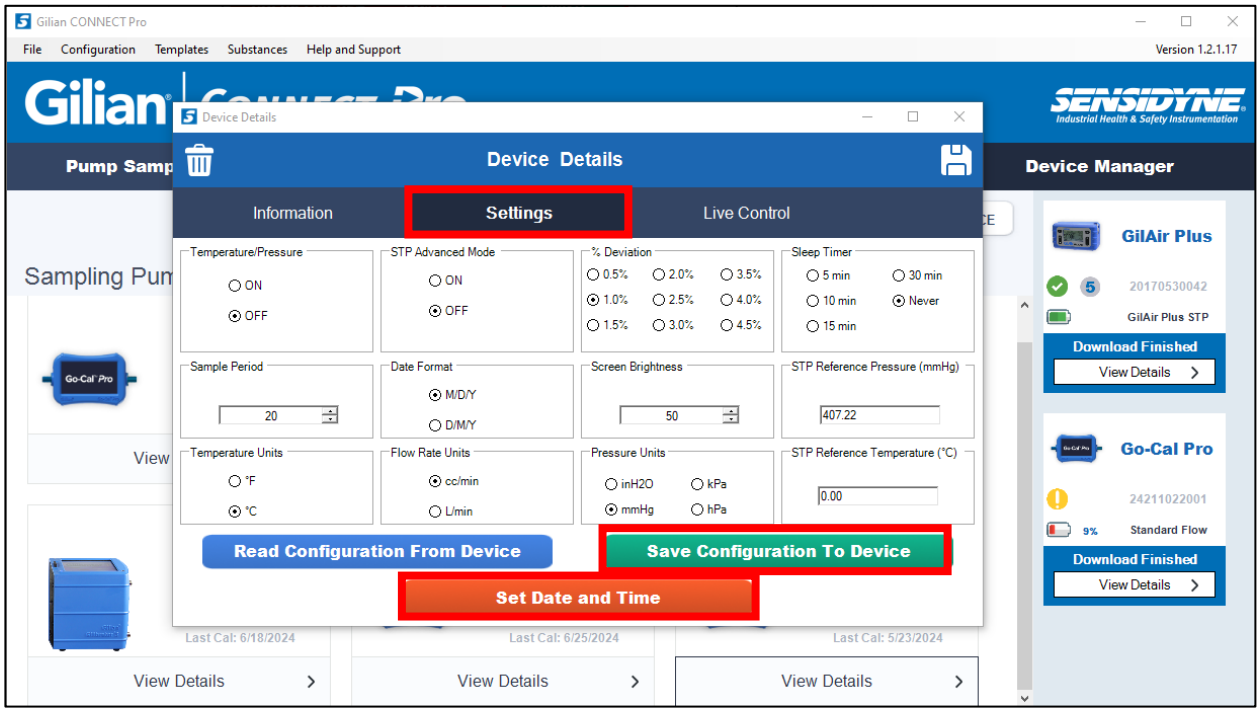


Additionally, device updates can be downloaded to the device by selecting the Check For Updates button. If a firmware update is available, it will also be noted with a yellow exclamation mark and text identifying, Firmware Update Available.

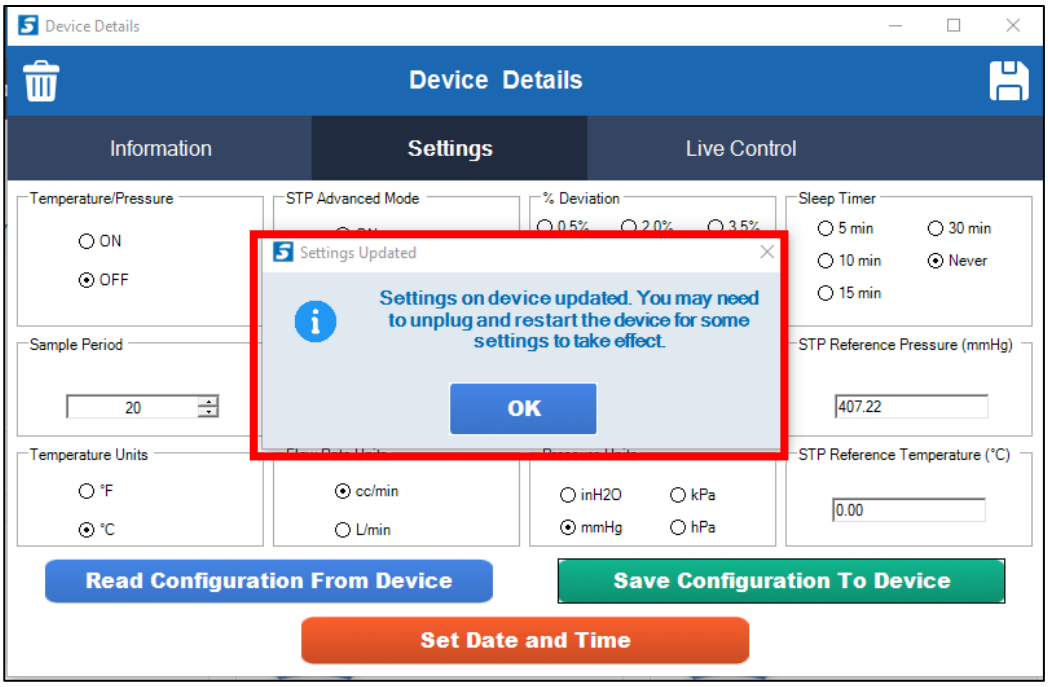


If an update is available, select the Update Firmware button, a pop-up window will appear, select the Update button to confirm and upload new firmware.

Select the Settings sub-tab and configure the settings for the calibrator.

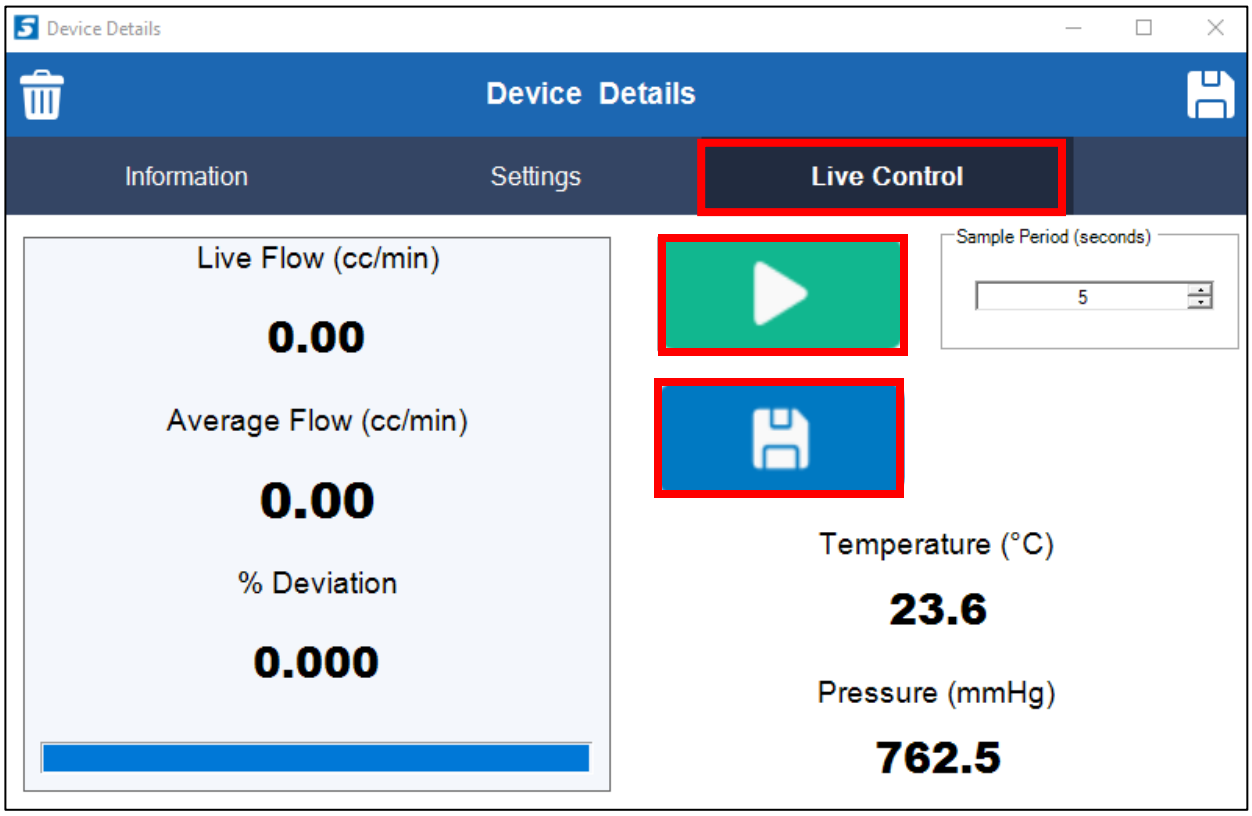


When calibrator configuration changes are complete, select the Save Configuration to Device button to load the configuration settings into the calibrator. To synch the date and time on your computer to the calibrator, select the Set Date and Time button.

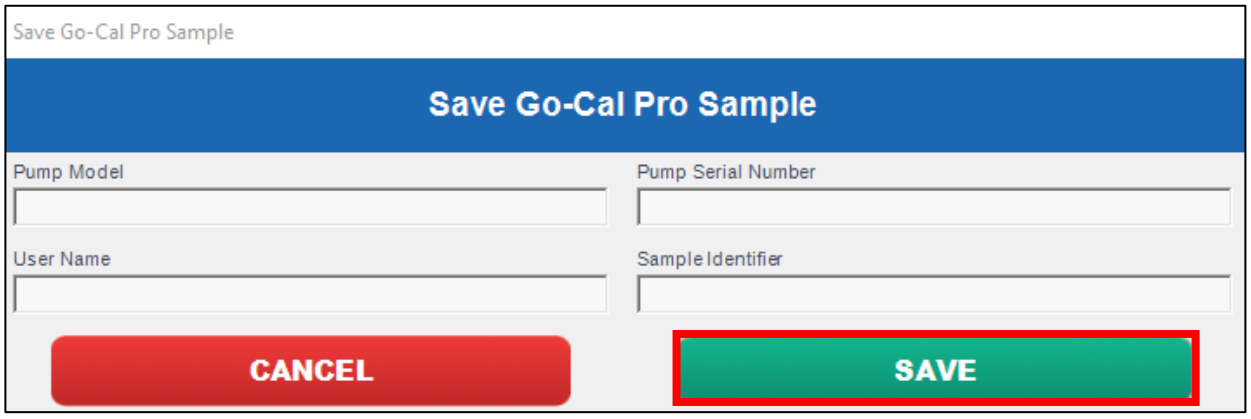


A pop-up window will appear instructing the user to unplug the device from the computer and restarting the calibrator in order for the changes to take effect.

The third sub-tab is Live Control. From this tab you can collect a flow verification reading and store it to the Connect Pro software.



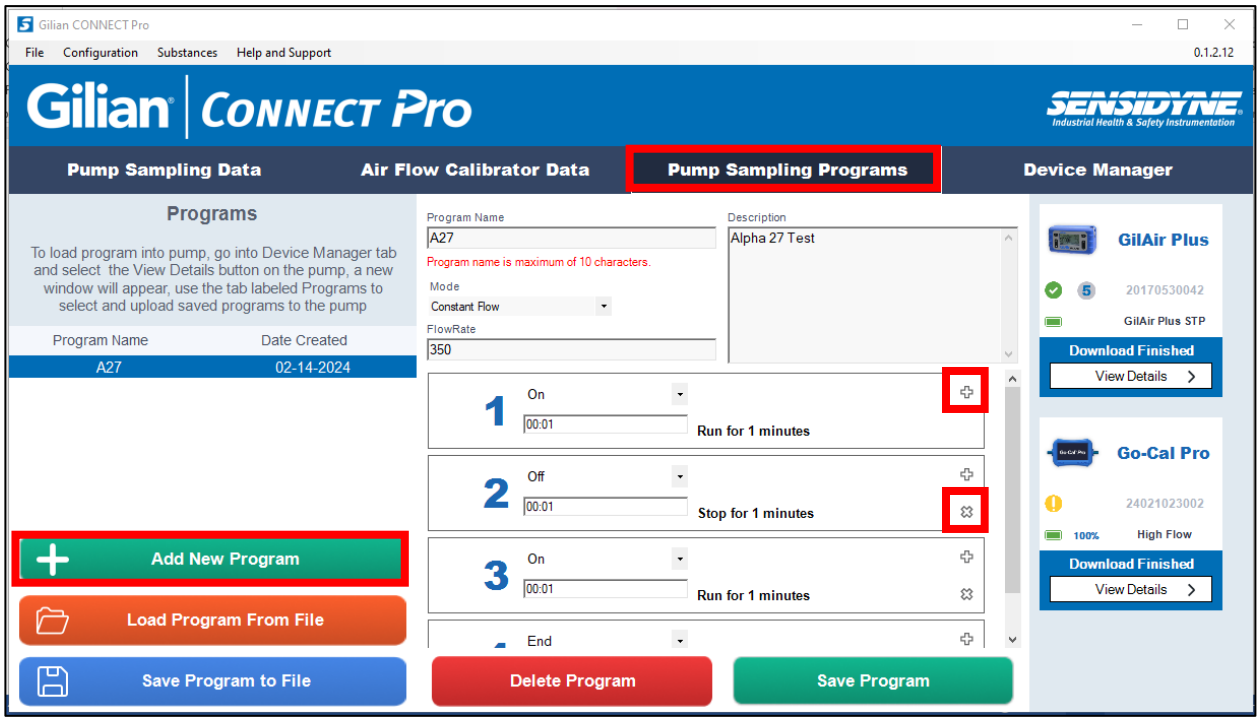
With the sample pump and sample train connected to the Go-Cal Pro, start flow on the pump and the live flow reading in the window will display what the calibrator is displaying. Use the Play button to collect the timed interval and save the flow verification event record by selecting the Save button.



Enter in the four fields of event information and select the Save button to store the record in the Connect Pro software.

Pump Program Management

Create a new program by selecting the Add New Program Button. The program can be named using up to 10 characters, which will be displayed in the pumps program directory. A description of the program can be added as well as setting the pump's Run Mode and Flow Rate.



Run Mode Options

Choose from the run mode options available on your air sampling pump.

- Constant Flow Mode is used for sampling using a single sample media where the flowrate will remain constant as back pressure increases.
- Constant Pressure High Mode is used with the Gilian High Flow Splitter to sample two sample media simultaneously, where the flow rate is set on the splitter manifold for each media.
- Constant Pressure Low Mode is used with the Gilian Variable Manifold Kits to sample up to four sample media simultaneously, where the flow rate is set on the variable manifold for each media.

Setting the Flowrate

The flow rate must be set within the flow range of your sampling pump.

Please note that on the GilAir Plus pumps, the valve must be set to high (450 cc/min to 5100 cc/min) or low (20 cc/min to 449 cc/min) on the pump prior to running the loaded program.

Program Step Sequence

Programs can be established with Gilian Connect Pro and loaded to individual pumps. A pump program can have up to 20 steps. Options for program steps include; Date, Weekday, Time, On, Off, Runtime, Volume, Cycle, and End.

Note – Review Pump Manual for further information regarding the function options available for your pump.

- Add a step by clicking the “plus” icon in the upper right corner of the program step. This will insert a new step.
- Delete a step by clicking the “X” icon in the lower right corner of the program step.
- To edit a step, select from a choice of dropdown functions. Once a function option has been selected the corresponding text for that function will appear next to a box that will allow for a value to be entered that relates to the specific function selected.

The pump program can also be saved to file and then sent to another Connect Pro User. Additionally, a pump program can be loaded from file and then saved to the current Connect Pro list of programs.

NOTE: Remember to set the pump’s Run Mode to [program name] and press “Run” on the pump to start running the program. Refer to the pump’s User Manual for more detailed instructions.

NOTE: Program steps do not turn the pump on or off unless they are selected. “Wait” steps simply delay until a point in time, then continue to the next step.

Troubleshooting

Problem	Cause	Solution
I installed the application but now I can't find it.	The application is only available under the Windows user account in which it was installed.	Install the application under your regular user account.
None of the available COM ports seem to work, or no COM ports are available.	If the docking station USB was connected while the USB driver was being installed, the driver installation could not finish. This occurs even if the dock was not powered at the time.	Unplug the docking station USB cable and wait a few seconds. Reconnect docking station.
CONNECT Pro doesn't see my pumps	Calibration device connected to dock	Calibration devices can communicate directly with the pump through the docking station, however this overrides the ability of the pump to communicate to the PC. Disconnect the calibration device cable from the dock.
	Using new pumps or pumps that have not previously been used on this PC	Refer to the section in this guide entitled "Automated Pump Registration"
	Some pumps are downloading data	CONNECT Pro does not detect new pump connections while data is being downloaded. When the datalog download is complete, the other pumps will be detected.

Support

For further assistance, please contact SoftwareSupport@Sensidyne.com

NOTES

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