

Heron Instruments Software Manual

Written for Software Version 8.1.39.0

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Introduction

This manual covers the basic operation and use of the Heron Instruments software used to interface with Heron's manufactured products and services. This manual may not be fully comprehensive of all features and capabilities. Heron Instruments is constantly working to improve its products and therefore, feature sets and capabilities may change without notice. Features and capabilities may differ depending on region/language/settings/etc. Methods/systems/materials used or suggested may not comply with all regional regulations. It is the customer's responsibility to use the software and the manual within the limits of their regional rules and regulations.

Language Support

The Heron Instruments software is developed in English and translations are applied afterwards. The accuracy of translations cannot be guaranteed – if in doubt, the English version should be consulted for clarification. Further clarification can be obtained by contacting Heron Instruments directly.

Languages currently available are:

- English
- French
- Spanish
- Portuguese
- Japanese
- Hindi
- Chinese
- Bengali
- Russian
- Indonesian

If you require a language that is not listed, please contact Heron Instruments to request its addition.

Data Protection

Data downloaded to the Heron Instruments software is stored in a local database. This database is managed by your operating system. If the software is uninstalled or removed, the database may also be deleted by your operating system. It is strongly recommended to back up your computer regularly to protect your data. Backing up your database to protect against unforeseen incidents is also recommended. Heron Instruments is not responsible for the loss of any data that may occur due to a function or bug in the software. It is the responsibility of the user to manage their data and protect it in a way that is commensurate.

Compatibility

The Heron Instruments software is tested on a wide variety of computer configurations; however, compatibility is not guaranteed. To ensure the best compatibility, it is recommended to run the latest version of Windows. This software is designed to run on Windows 10. Windows 11 (x86, x64, and ARM compatible) and modern Apple Computers. A USB type A port with USB 2.0 or 3.0 protocols is required. The software will run on as little as 2GB of RAM and 32GB of storage. For the best experience a minimum of 8GB of RAM and 256GB of storage is recommended.

Installation and Updates

The software is available from the [Microsoft Store](#) or the [Apple App Store](#). Updates are handled by Microsoft or Apple and should be performed automatically depending on your settings.

Installing on Windows

From the overview page on the Microsoft Store, select *Install*. If you are signed into a Microsoft account, your installation will happen automatically. If you are not signed into a Microsoft account, you will be presented with an option to sign in or an option to skip. If you select skip, the software will still be installed automatically. A Microsoft account is not required to install the software.

Once installation is complete, the software will be available on your Windows Start menu.

What You Need to Get Started

If you are connecting to a logger directly you will need the following items:

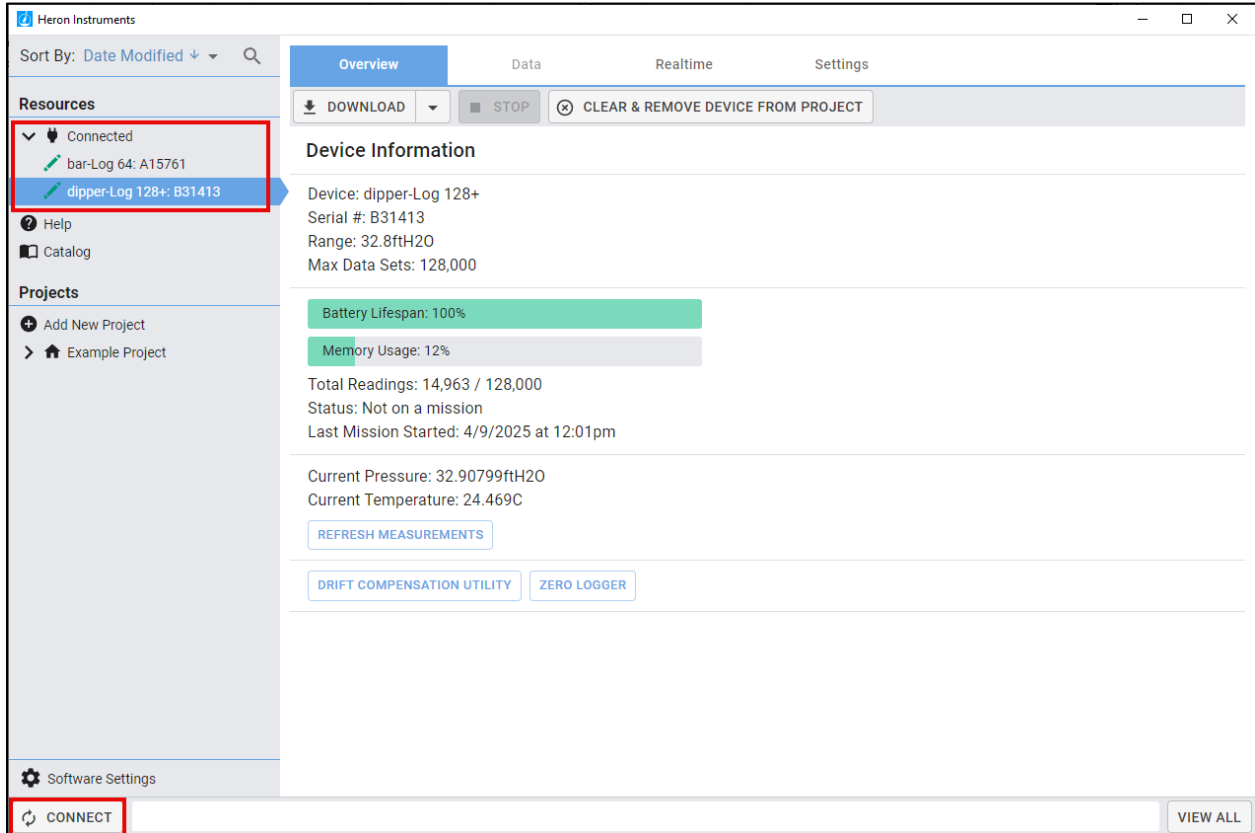
- A Windows 10, Windows 11 or modern Apple computer with the Heron Instruments software installed.
- A compatible dipper-Log data logger.
- A compatible PC-communication cable.

Starting a New Mission

Connecting to the Software

Connect your logger to the computer using the PC-communication cable. Open the software.

When the software opens it will display all connected loggers on the top left-hand side under the *Connected* dropdown menu of the *Resources* section. If your device is not showing up, click the *CONNECT* button in the bottom left-hand corner. This will scan all ports for any Heron Instruments devices.



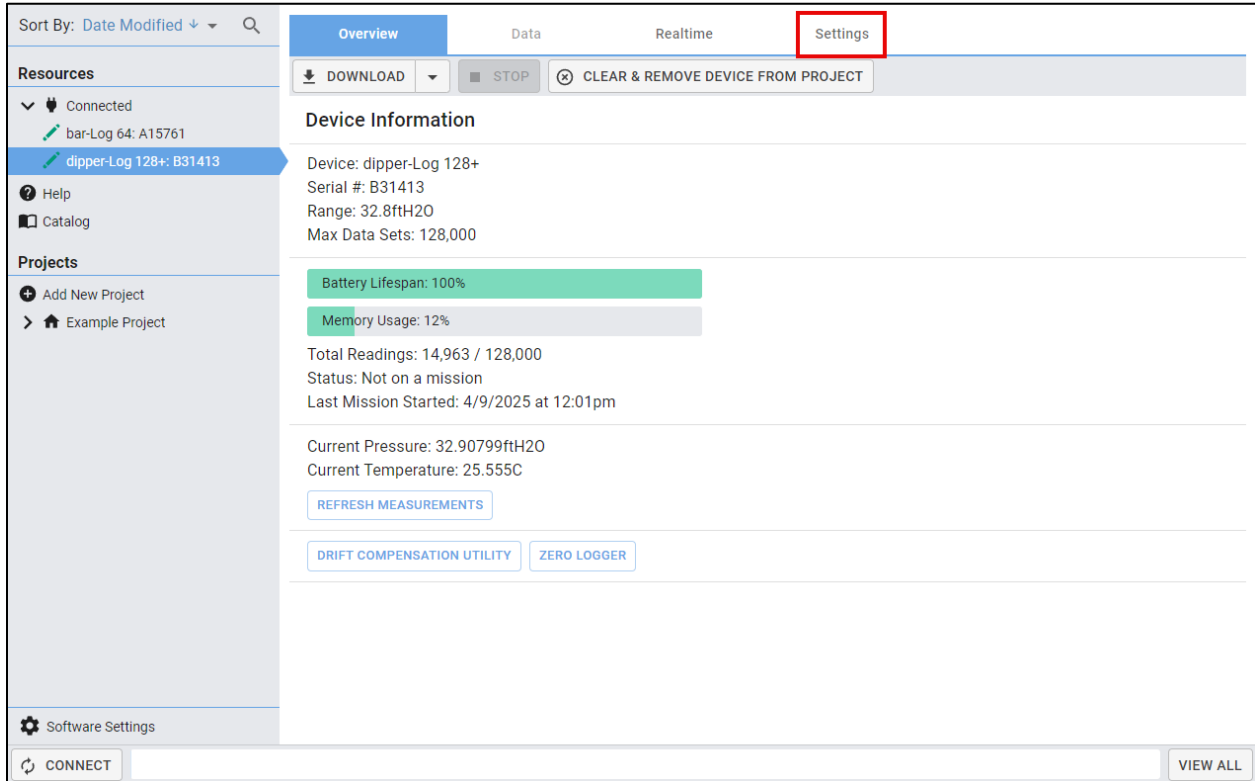
The screenshot displays the Heron Instruments software interface. On the left sidebar, the 'Resources' section is expanded, showing a 'Connected' dropdown menu. Two devices are listed: 'bar-Log 64: A15761' and 'dipper-Log 128+: B31413'. The 'dipper-Log 128+: B31413' device is highlighted with a blue selection bar. Below the 'Resources' section, there are links for 'Help' and 'Catalog'. The 'Projects' section shows 'Add New Project' and 'Example Project'. At the bottom of the sidebar, there is a 'Software Settings' gear icon and a 'CONNECT' button with a refresh icon, which is highlighted with a red box. The main content area has tabs for 'Overview', 'Data', 'Realtime', and 'Settings'. The 'Overview' tab is active, showing 'Device Information' for the selected device: 'dipper-Log 128+', 'Serial #: B31413', 'Range: 32.8ftH2O', and 'Max Data Sets: 128,000'. Below this, there are progress bars for 'Battery Lifespan: 100%' and 'Memory Usage: 12%'. Further down, it shows 'Total Readings: 14,963 / 128,000', 'Status: Not on a mission', and 'Last Mission Started: 4/9/2025 at 12:01pm'. At the bottom of the main content area, there are buttons for 'REFRESH MEASUREMENTS', 'DRIFT COMPENSATION UTILITY', and 'ZERO LOGGER'. A 'VIEW ALL' button is located at the bottom right of the interface.

Settings Tab

If multiple loggers are connected, select your device. The *Overview* tab will be displayed on default giving an overview of your device and its current state.

To set up your logger, click on the *Settings* tab. This tab allows you to enter your mission details.

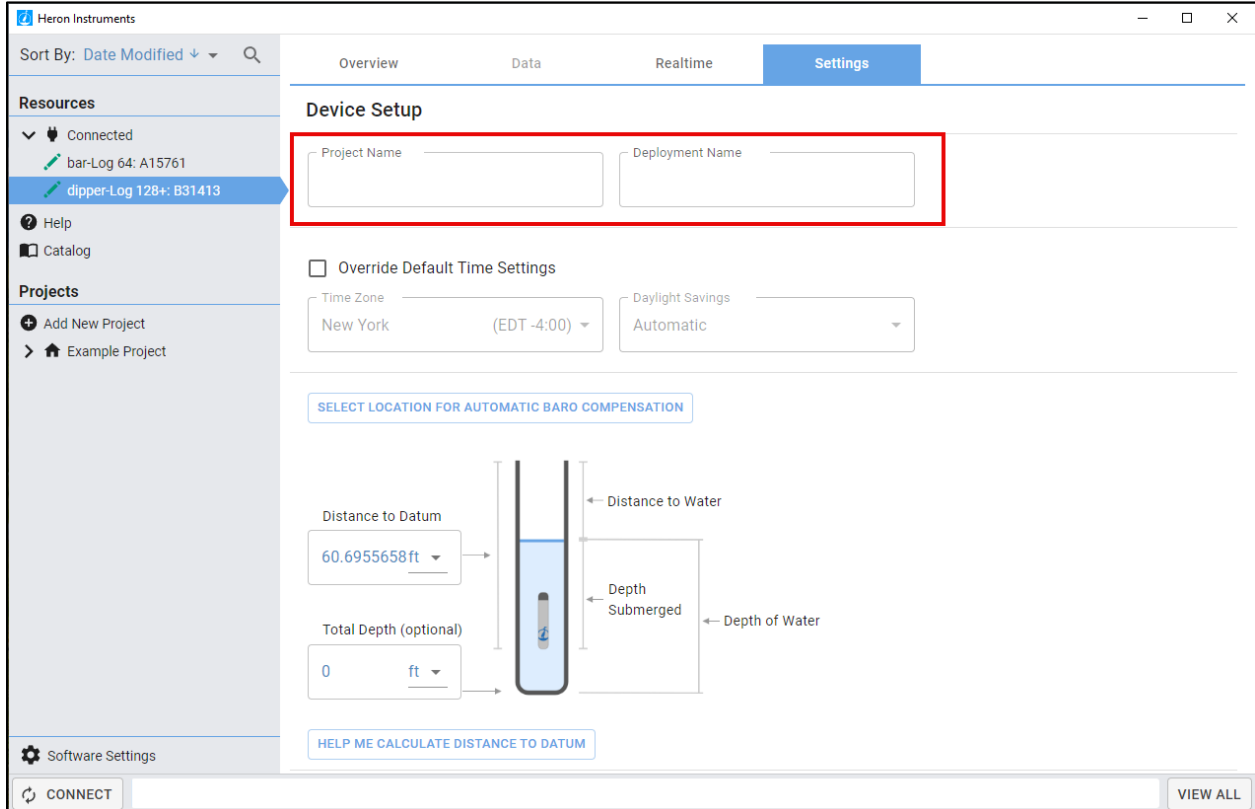
Note: Available settings are dependent on the logger type.



The screenshot displays the Heron Instruments web interface. On the left is a sidebar with a search bar at the top. Below it, the 'Resources' section shows two connected loggers: 'bar-Log 64: A15761' and 'dipper-Log 128+: B31413', with the latter selected. Below 'Resources' are links for 'Help' and 'Catalog'. The 'Projects' section includes 'Add New Project' and 'Example Project'. At the bottom of the sidebar is a 'Software Settings' gear icon. The main content area has tabs for 'Overview', 'Data', 'Realtime', and 'Settings', with 'Settings' highlighted by a red box. Below the tabs are three buttons: 'DOWNLOAD', 'STOP', and 'CLEAR & REMOVE DEVICE FROM PROJECT'. The 'Device Information' section lists: 'Device: dipper-Log 128+', 'Serial #: B31413', 'Range: 32.8ftH2O', and 'Max Data Sets: 128,000'. Below this are two progress bars: 'Battery Lifespan: 100%' (green) and 'Memory Usage: 12%' (grey). Further down, it shows 'Total Readings: 14,963 / 128,000', 'Status: Not on a mission', and 'Last Mission Started: 4/9/2025 at 12:01pm'. The 'Current Pressure: 32.90799ftH2O' and 'Current Temperature: 25.555C' are also displayed, with a 'REFRESH MEASUREMENTS' button below them. At the bottom of the main area are 'DRIFT COMPENSATION UTILITY' and 'ZERO LOGGER' buttons. The footer contains a 'CONNECT' button on the left and a 'VIEW ALL' button on the right.

Naming a Project

Enter a Project Name and Deployment Name. These will be used to organize your data in the data management panel under *Projects*. If you are adding a device to an existing project, the project name and deployment name will be selectable as a dropdown option within the data field.



Sort By: Date Modified

Resources

- Connected
- bar-Log 64: A15761
- dipper-Log 128+: B31413

Help

Catalog

Projects

- Add New Project
- Example Project

Software Settings

CONNECT

VIEW ALL

Overview Data Realtime **Settings**

Device Setup

Project Name Deployment Name

☐ Override Default Time Settings

Time Zone New York (EDT -4:00) Daylight Savings Automatic

SELECT LOCATION FOR AUTOMATIC BARO COMPENSATION

Distance to Datum 60.6955658 ft

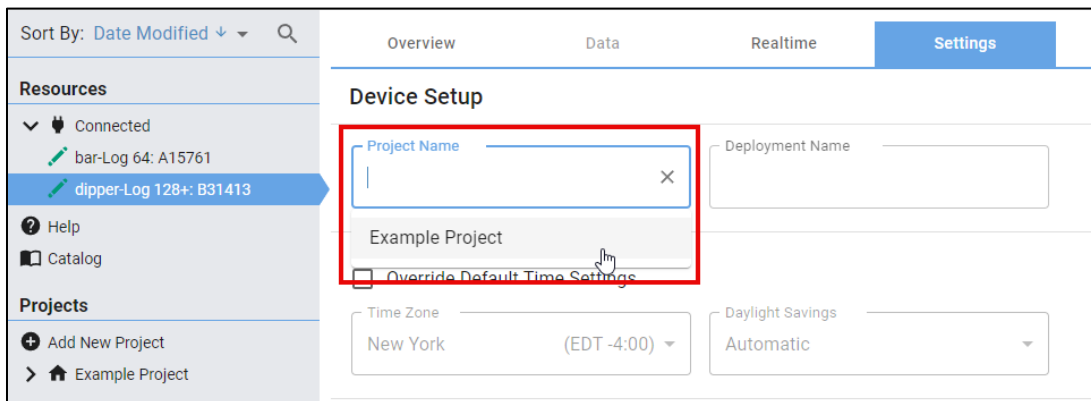
Total Depth (optional) 0 ft

Distance to Water

Depth Submerged

Depth of Water

HELP ME CALCULATE DISTANCE TO DATUM



Sort By: Date Modified

Resources

- Connected
- bar-Log 64: A15761
- dipper-Log 128+: B31413

Help

Catalog

Projects

- Add New Project
- Example Project

Software Settings

CONNECT

VIEW ALL

Overview Data Realtime **Settings**

Device Setup

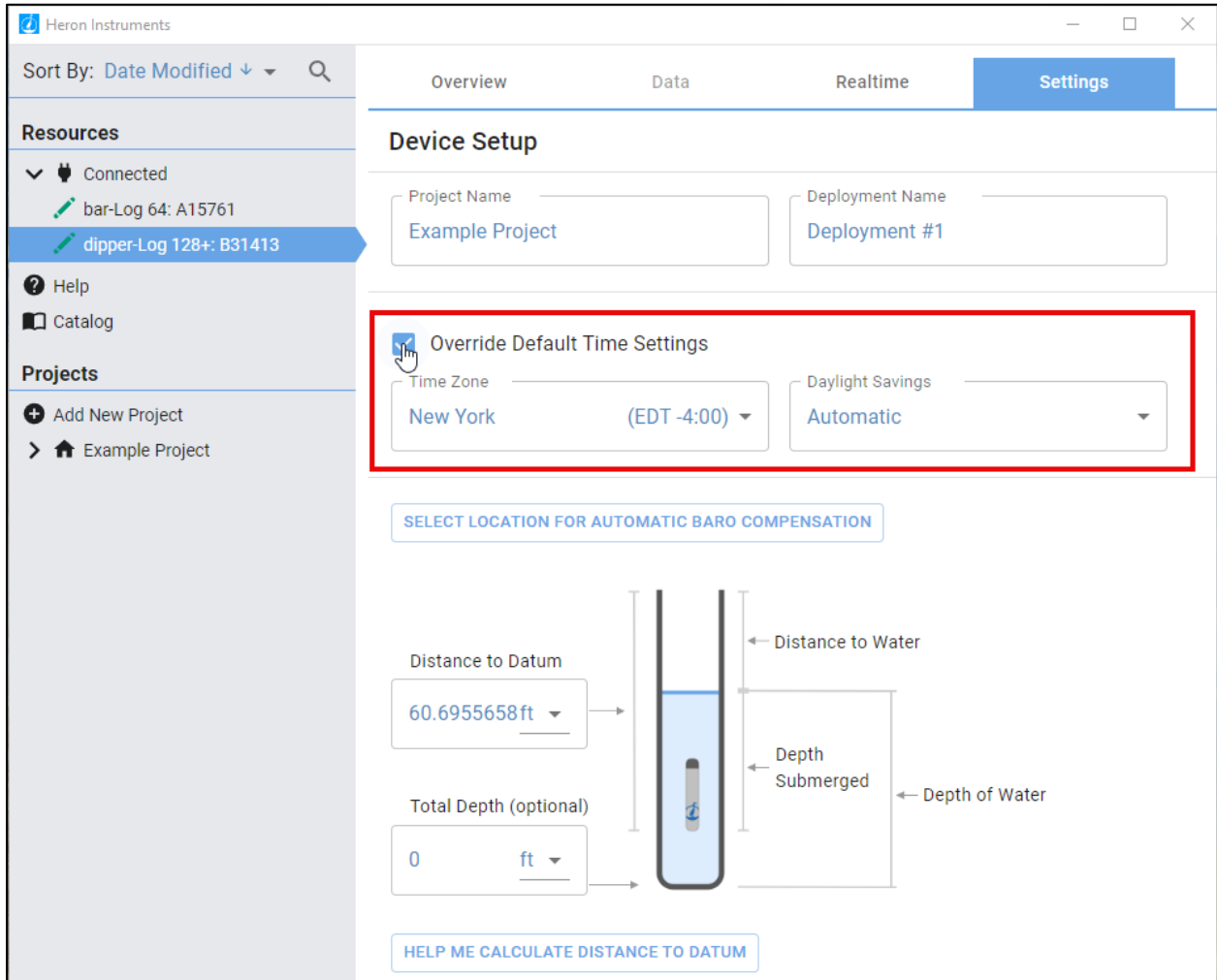
Project Name Deployment Name

☐ Override Default Time Settings

Time Zone New York (EDT -4:00) Daylight Savings Automatic

Time Settings

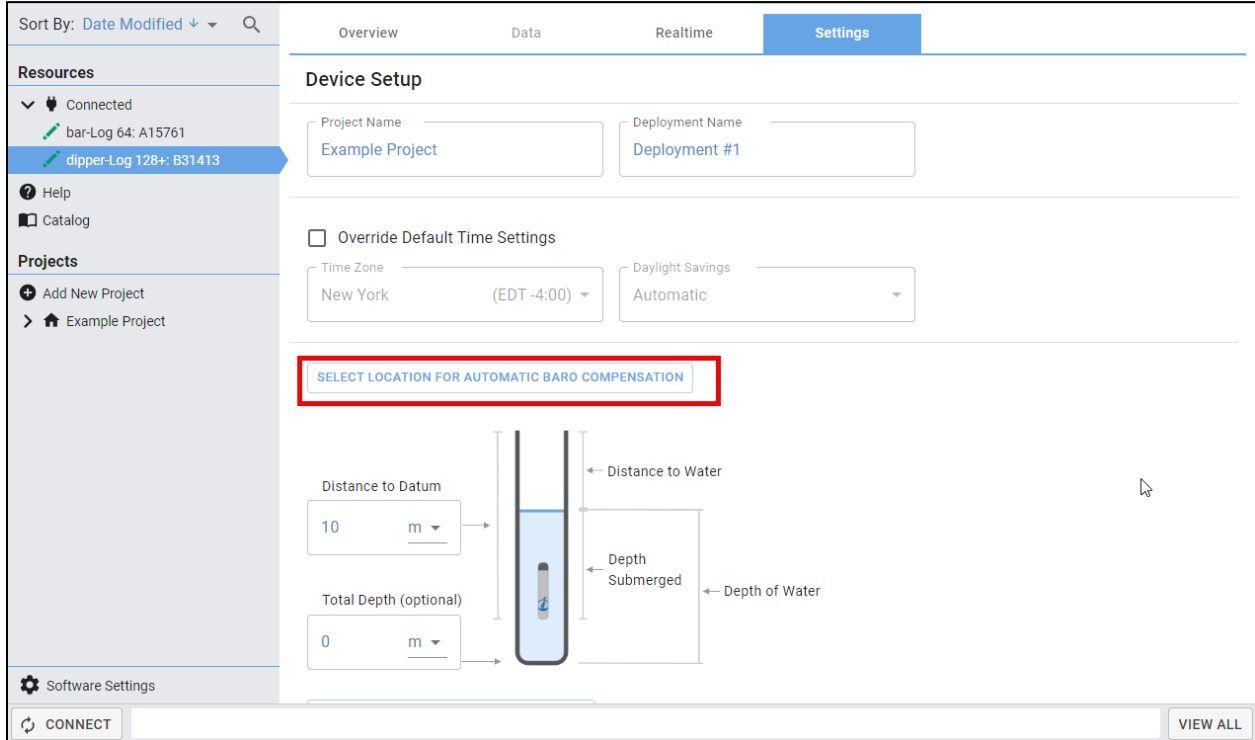
The Time Settings default to your current location. To manually adjust the settings, click the *Override Default Time Settings* box. Then select your desired time zone and daylight savings settings.



The screenshot shows the Heron Instruments web interface. The left sidebar contains a 'Resources' section with 'Connected' devices: 'bar-Log 64: A15761' and 'dipper-Log 128+: B31413'. Below this is a 'Projects' section with 'Add New Project' and 'Example Project'. The main content area has tabs for 'Overview', 'Data', 'Realtime', and 'Settings'. The 'Settings' tab is active, showing the 'Device Setup' section. A red box highlights the 'Override Default Time Settings' section, which includes a 'Time Zone' dropdown set to 'New York (EDT -4:00)' and a 'Daylight Savings' dropdown set to 'Automatic'. Below this is a button labeled 'SELECT LOCATION FOR AUTOMATIC BARO COMPENSATION'. At the bottom, there is a diagram of a dipper with labels for 'Distance to Datum' (60.6955658 ft), 'Total Depth (optional)' (0 ft), 'Distance to Water', 'Depth Submerged', and 'Depth of Water'. A button labeled 'HELP ME CALCULATE DISTANCE TO DATUM' is also present.

Selecting a Location for Automatic Baro Compensation

If you would like to use the automatic barometric compensation feature on your data (for more information see the [Auto-Baro](#) chapter), click on the **SELECT LOCATION FOR AUTOMATIC BARO COMPENSATION** button. Select one of your recent locations or click on **NEW LOCATION**.



Sort By: Date Modified

Resources

- Connected
 - bar-Log 64: A15761
 - dipper-Log 128+: B31413
- Help
- Catalog

Projects

- Add New Project
- Example Project

Software Settings

CONNECT

VIEW ALL

Overview Data Realtime **Settings**

Device Setup

Project Name: Example Project

Deployment Name: Deployment #1

☐ Override Default Time Settings

Time Zone: New York (EDT -4:00)

Daylight Savings: Automatic

SELECT LOCATION FOR AUTOMATIC BARO COMPENSATION

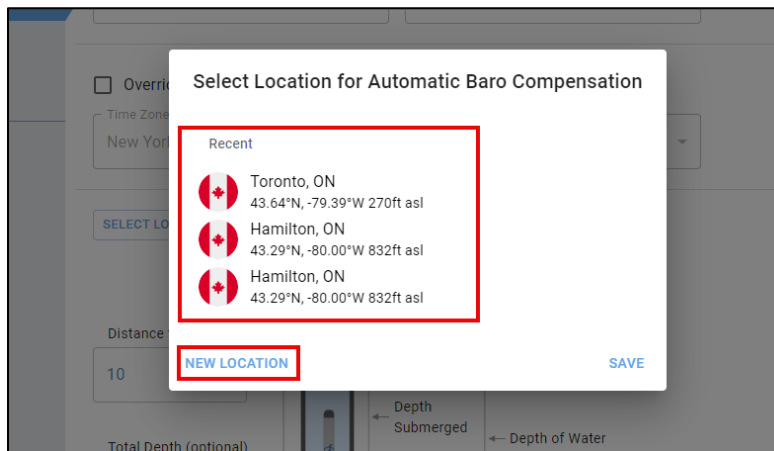
Distance to Datum: 10 m

Total Depth (optional): 0 m

Distance to Water

Depth Submerged

Depth of Water



Select Location for Automatic Baro Compensation

Recent

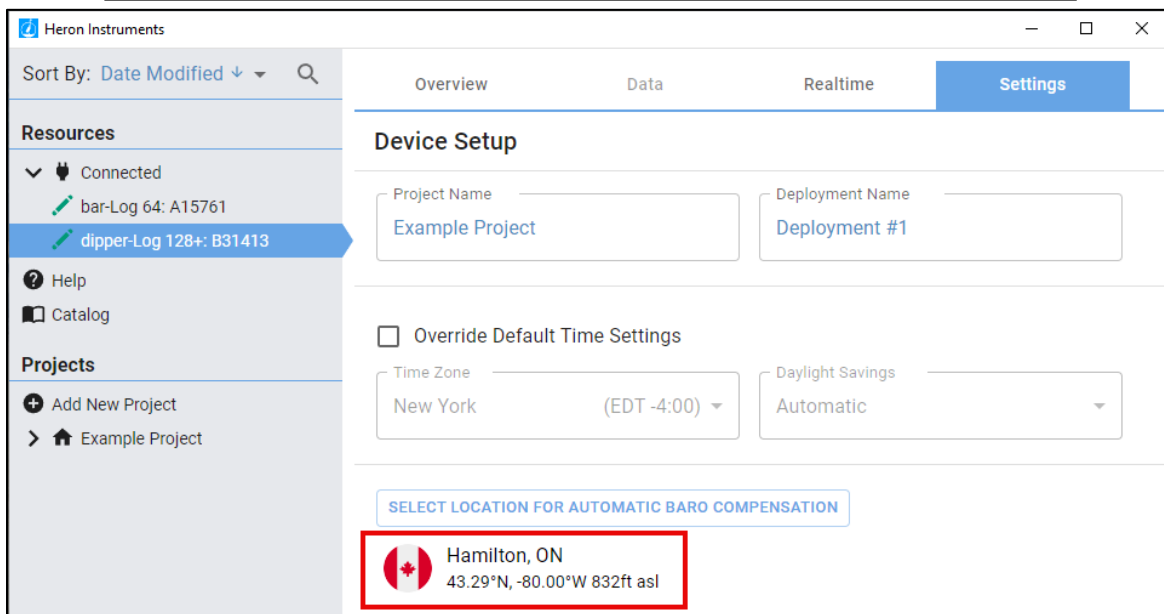
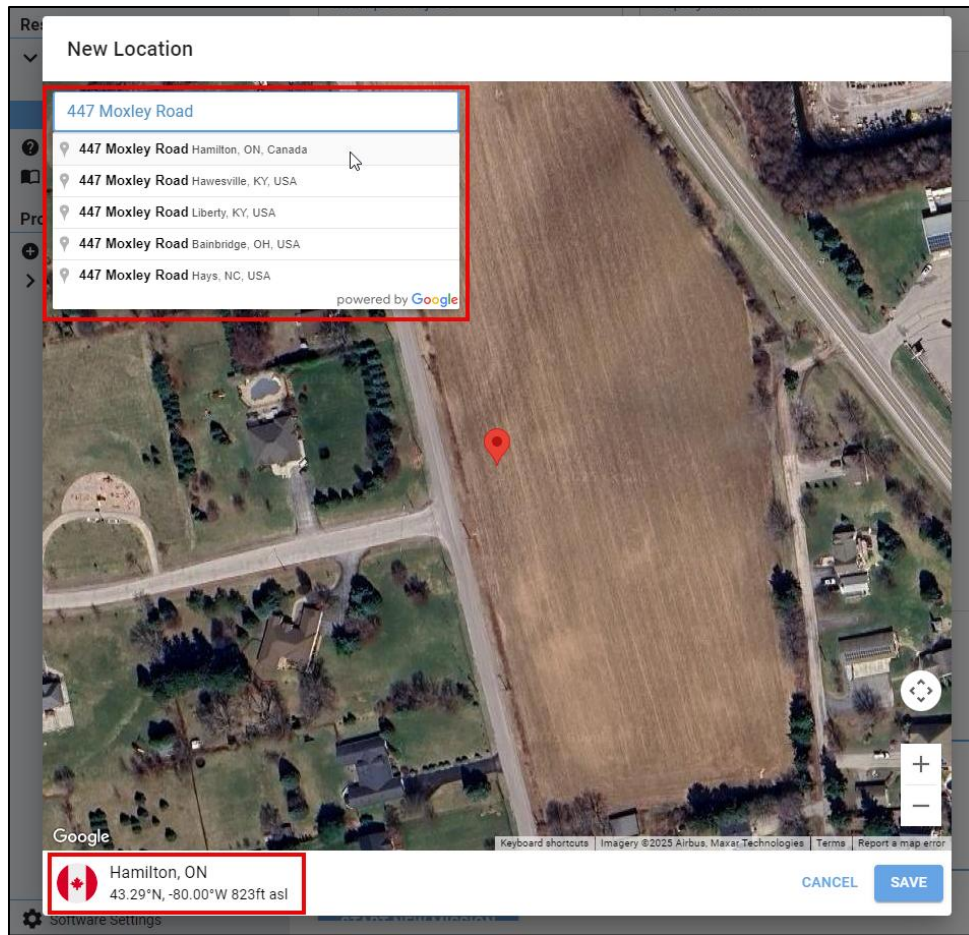
- Toronto, ON
43.64°N, -79.39°W 270ft asl
- Hamilton, ON
43.29°N, -80.00°W 832ft asl
- Hamilton, ON
43.29°N, -80.00°W 832ft asl

NEW LOCATION

SAVE

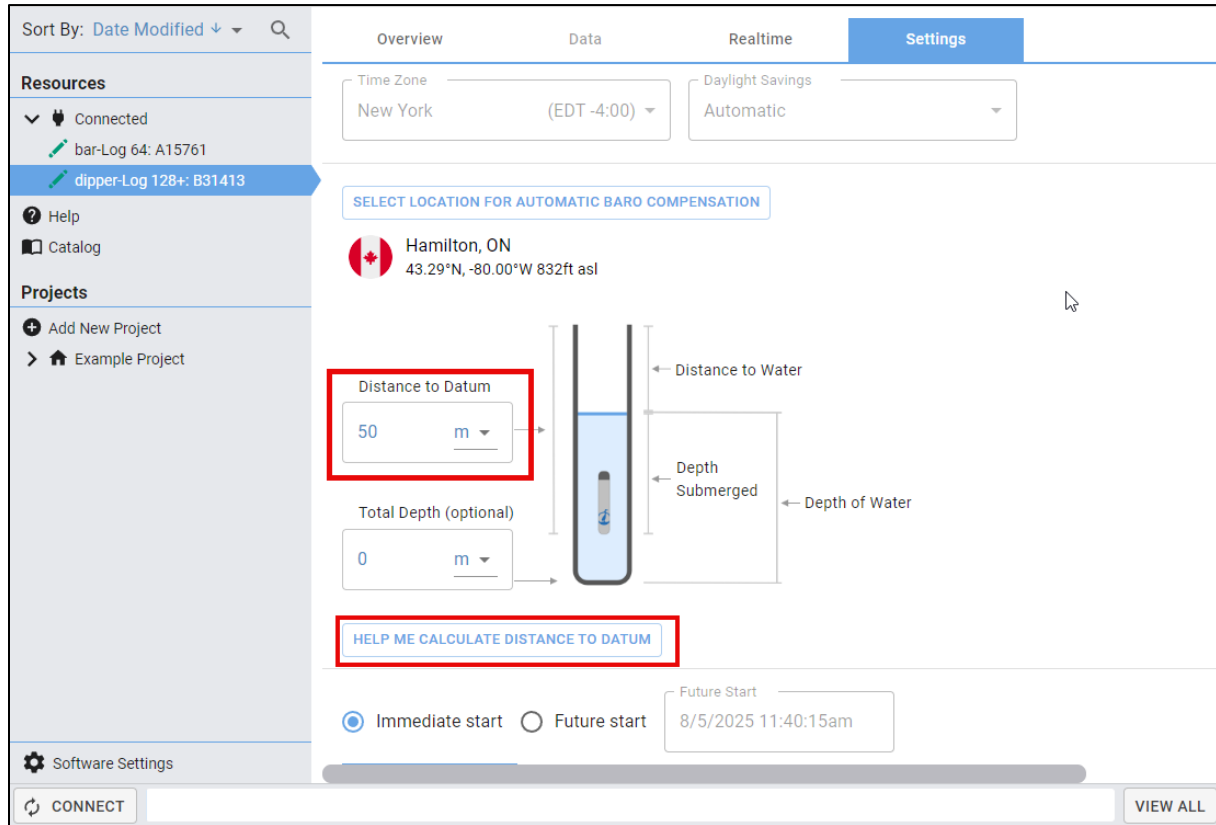
If selecting a new location, start typing the address of your deployment location and select an option from the dropdown menu. The coordinates will populate in the lower right-hand corner, then click **SAVE**. Select your recently added location and click **SAVE**. Your deployment location will now be displayed on the *Settings* tab.

Note: An active internet connection is required for this feature.



Distance to Datum

The *Distance to Datum* measurement is the distance between where the device is deployed and your datum point (e.g. the top of the well casing). This field is mandatory. If you have a dipper-Log on a direct read cable or a Heron water level meter, you can click on the *HELP ME CALCULATE DISTANCE TO DATUM* button. This tool is a useful step-by-step guide to calculate your *Distance to Datum* measurement.



Sort By: Date Modified ↓

Resources

- Connected
- bar-Log 64: A15761
- dipper-Log 128+: B31413
- Help
- Catalog

Projects

- Add New Project
- Example Project

Overview Data Realtime **Settings**

Time Zone: New York (EDT -4:00) Daylight Savings: Automatic

SELECT LOCATION FOR AUTOMATIC BARO COMPENSATION

Hamilton, ON
43.29°N, -80.00°W 832ft asl

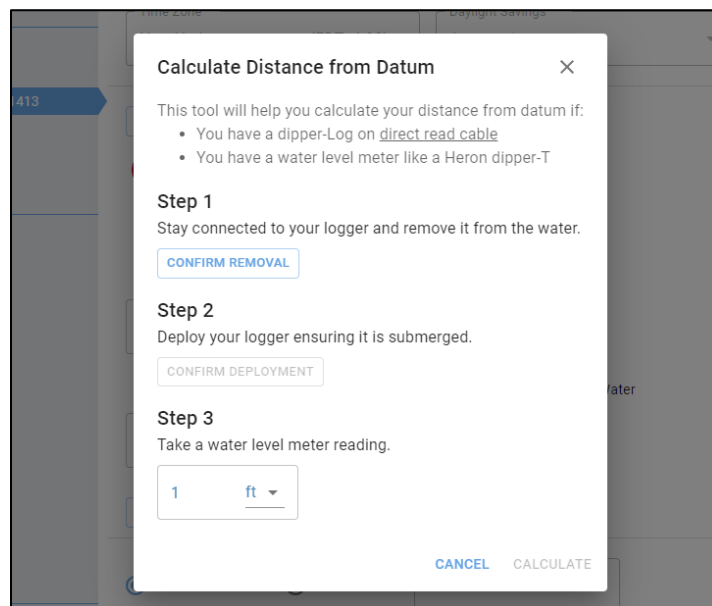
Distance to Datum: 50 m

Total Depth (optional): 0 m

HELP ME CALCULATE DISTANCE TO DATUM

Immediate start (selected) Future start 8/5/2025 11:40:15am

CONNECT VIEW ALL



Calculate Distance from Datum

This tool will help you calculate your distance from datum if:

- You have a dipper-Log on [direct read cable](#)
- You have a water level meter like a Heron dipper-T

Step 1
Stay connected to your logger and remove it from the water.
[CONFIRM REMOVAL](#)

Step 2
Deploy your logger ensuring it is submerged.
[CONFIRM DEPLOYMENT](#)

Step 3
Take a water level meter reading.
1 ft

[CANCEL](#) [CALCULATE](#)

Total Depth

Total Depth is optional but recommended. It is the distance from the datum point to the bottom of the well or body of water being measured. The software can use the total depth to automatically calculate more information and save you from additional work.

Use a Heron dipper-T2 with the optional well depth indicator probe to get an accurate reading of the depth of your water column.

Sort By: Date Modified

Overview

Data

Realtime

Settings

Resources

Connected

bar-Log 64: A15761

dipper-Log 128+: B31413

Help

Catalog

Projects

Add New Project

Example Project

Time Zone

New York (EDT -4:00)

Daylight Savings

Automatic

SELECT LOCATION FOR AUTOMATIC BARO COMPENSATION

Hamilton, ON

43.29°N, -80.00°W 832ft asl

Distance to Datum

50 m

Total Depth (optional)

0 m

Distance to Water

Depth Submerged

Depth of Water

HELP ME CALCULATE DISTANCE TO DATUM

Immediate start

Future start

Future Start

8/5/2025 11:40:15am

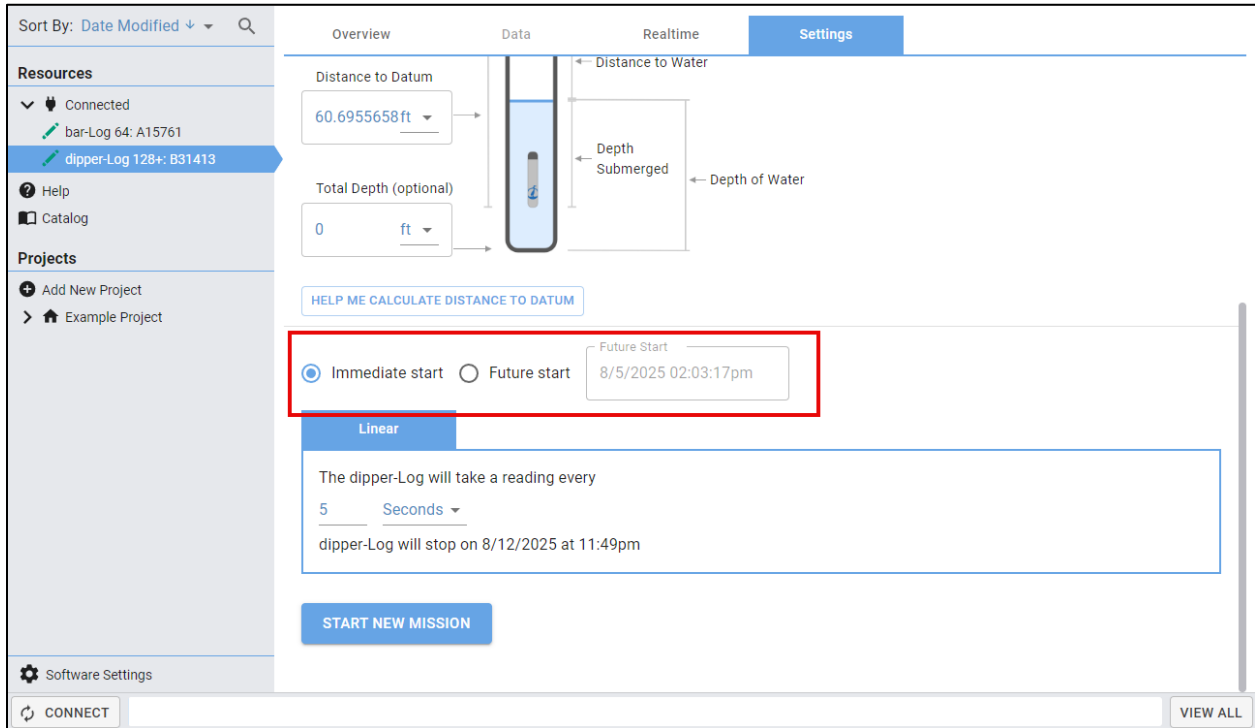
Software Settings

CONNECT

VIEW ALL

Start Time

By default, the logger is set to start its mission immediately. To input a future start date and time, check the *Future Start* box and edit the date and time by clicking in the date/time field.



Sort By: Date Modified ↓

Resources

- Connected
 - bar-Log 64: A15761
 - dipper-Log 128+: B31413
- Help
- Catalog

Projects

- Add New Project
- Example Project

Settings

Overview Data Realtime

Distance to Datum: 60.6955658 ft

Total Depth (optional): 0 ft

Distance to Water

Depth Submerged

Depth of Water

HELP ME CALCULATE DISTANCE TO DATUM

☒ Immediate start ☐ Future start

Future Start: 8/5/2025 02:03:17pm

Linear

The dipper-Log will take a reading every 5 Seconds

dipper-Log will stop on 8/12/2025 at 11:49pm

START NEW MISSION

Software Settings

CONNECT

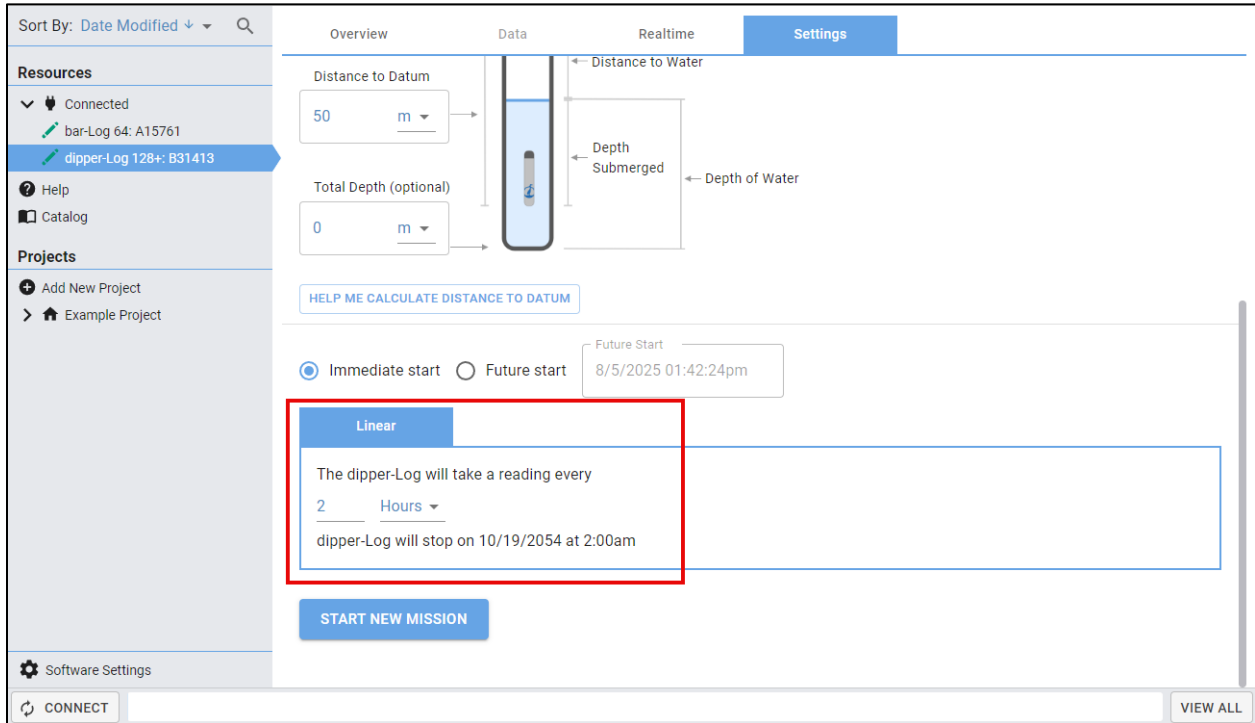
VIEW ALL

Logging Intervals

Most loggers only support linear reading intervals – however, some will also support scheduled intervals. Select the *Linear* or *Scheduled* tab.

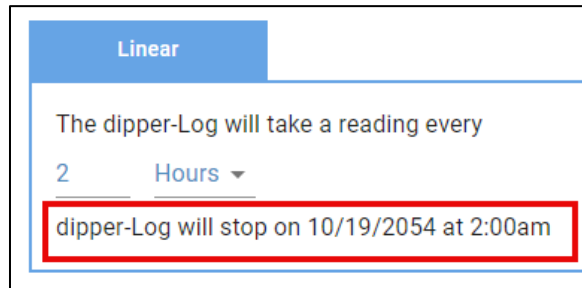
Linear Mode

Linear mode allows you to set the amount of time between each reading. Some loggers may also allow you to select a maximum number of readings.



The screenshot shows the 'Settings' tab of the Heron Instruments software. On the left is a sidebar with 'Resources' (Connected: bar-Log 64: A15761, dipper-Log 128+: B31413) and 'Projects' (Add New Project, Example Project). The main area has tabs for Overview, Data, Realtime, and Settings. Under 'Settings', there are input fields for 'Distance to Datum' (50 m) and 'Total Depth (optional)' (0 m). A diagram of a dipper-log is shown with labels for 'Distance to Water', 'Depth Submerged', and 'Depth of Water'. Below this is a 'HELP ME CALCULATE DISTANCE TO DATUM' button. Further down, there are radio buttons for 'Immediate start' (selected) and 'Future start' (8/5/2025 01:42:24pm). A red box highlights the 'Linear' tab, which contains the text: 'The dipper-Log will take a reading every 2 Hours' and 'dipper-Log will stop on 10/19/2054 at 2:00am'. Below this is a 'START NEW MISSION' button. At the bottom, there is a 'CONNECT' button and a 'VIEW ALL' link.

Note: The software displays the logger's estimated stop time based on its current storage and the reading interval.



This is a close-up of the 'Linear' tab settings. It shows the text: 'The dipper-Log will take a reading every 2 Hours' and 'dipper-Log will stop on 10/19/2054 at 2:00am'. The stop time text is highlighted with a red box.

Log Time records the first reading at 1 second and adds 1 second to each subsequent reading interval for 255 readings. Note: This feature is supported by some but not all loggers.

Linear

The dipper-Log will take a reading every

Log Time ▾

dipper-Log will stop on 8/5/2025 at 10:42pm

Scheduled Mode

The *Scheduled* mode allows you to create a custom logging schedule for your logger. This mode is highly flexible and can be as simple or complex as required. Create an interval and input a maximum number of readings for that interval. Click the (+) button to add more intervals and use the (-) button to remove intervals. After creating your schedule, select whether your mission will stop at the end of the schedule or if the schedule will repeat.

Linear

Scheduled

The dipperLog will take a reading every

1.	15	Minutes ▾	for	10	Intervals	2.5	⊖
2.	1	Seconds ▾	for	100	Intervals	0.03	⊖

+ Add Interval (Maximum 50 Intervals)

After Schedule Completion

☒ Stop After Schedule Completion
 ☐ Repeat Schedule _____ Times

dipperLog will stop on 2021-09-16 at 12:52pm

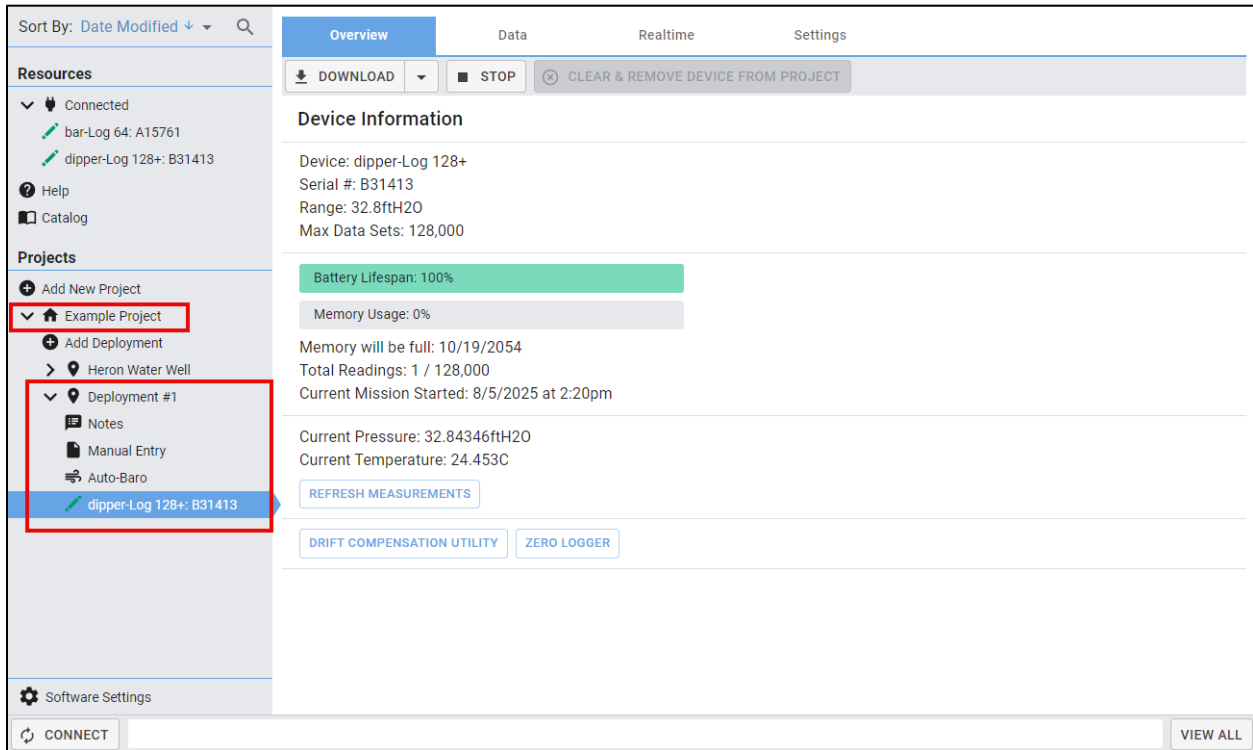
Total Time: 2.53 hours

Total Readings: 110

Checks Before Starting the Mission

Starting a new mission will delete any data stored on the logger! Make sure to download your data before starting a new mission – data downloaded to the database on your computer will not be affected. Starting a new mission will also overwrite the previous mission settings.

Once all settings are entered, click the *START NEW MISSION* button. This will upload your settings to the logger, and it will now appear in your data management panel under the appropriate project and deployment. You can now disconnect your logger and deploy it.



Sort By: Date Modified ▾ 🔍

Resources

- Connected
 - bar-Log 64: A15761
 - dipper-Log 128+: B31413
- Help
- Catalog

Projects

- + Add New Project
- ▼ Example Project
 - + Add Deployment
 - > Heron Water Well
 - ▼ Deployment #1
 - Notes
 - Manual Entry
 - Auto-Baro
 - dipper-Log 128+: B31413

Software Settings

CONNECT

Overview Data Realtime Settings

DOWNLOAD ▾ STOP CLEAR & REMOVE DEVICE FROM PROJECT

Device Information

Device: dipper-Log 128+
Serial #: B31413
Range: 32.8ftH2O
Max Data Sets: 128,000

Battery Lifespan: 100%
Memory Usage: 0%
Memory will be full: 10/19/2054
Total Readings: 1 / 128,000
Current Mission Started: 8/5/2025 at 2:20pm

Current Pressure: 32.84346ftH2O
Current Temperature: 24.453C

REFRESH MEASUREMENTS
DRIFT COMPENSATION UTILITY ZERO LOGGER

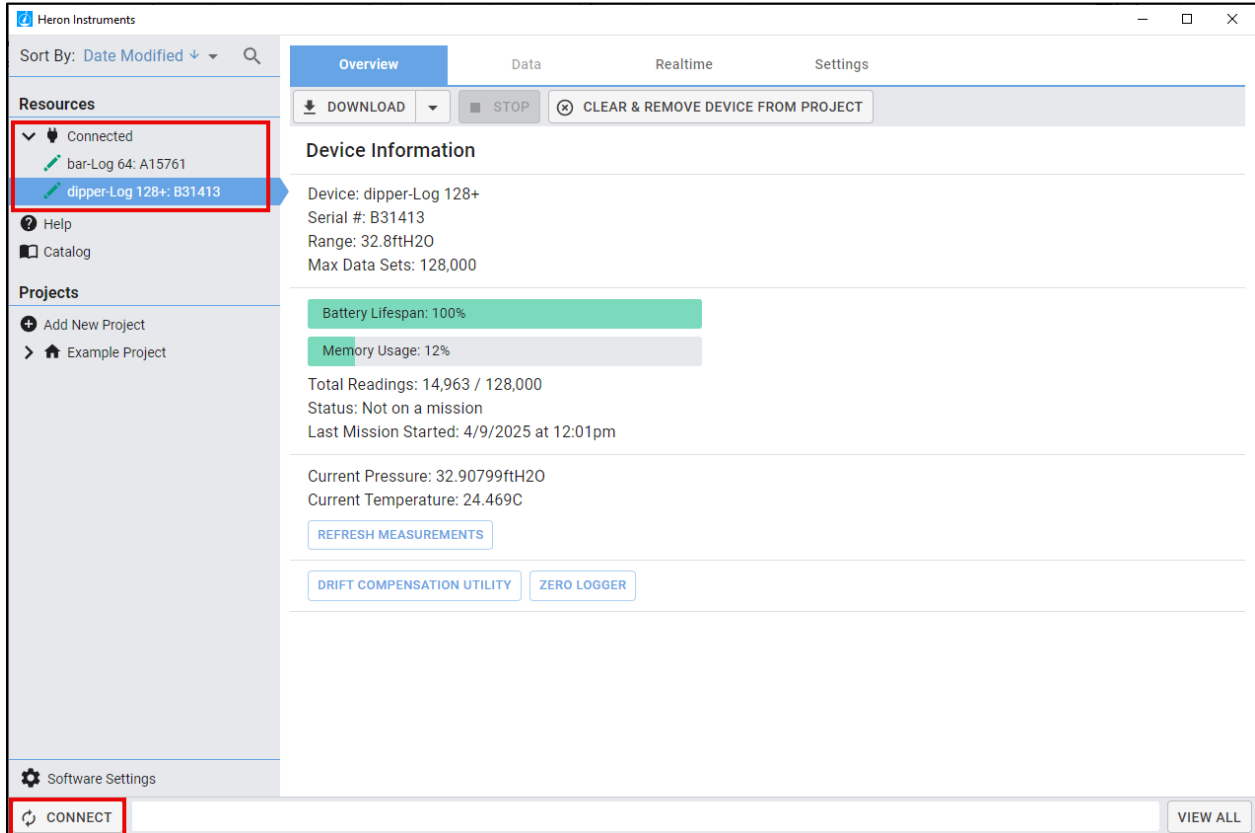
VIEW ALL

Downloading Data

Connecting the Logger

Connect your logger to the computer using the PC-communication cable. Open the software.

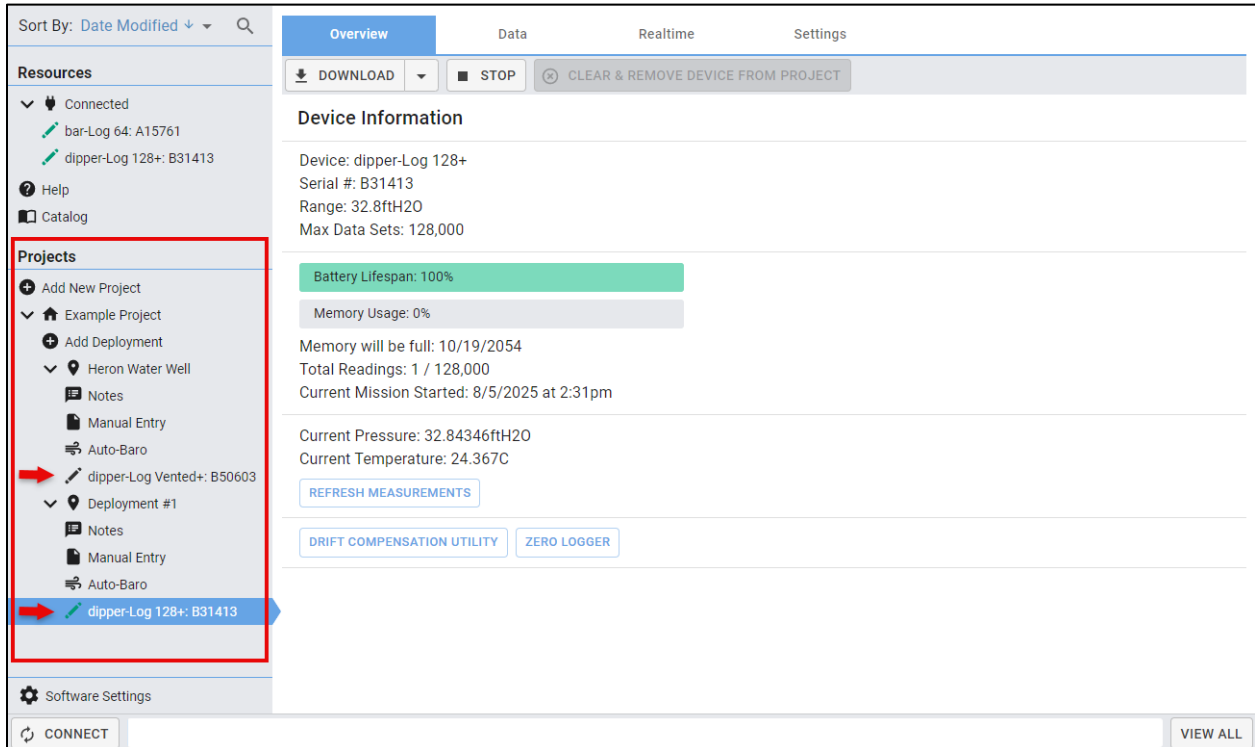
When the software opens it will display all connected loggers on the top left-hand side under the *Connected* dropdown menu of the *Resources* section. If your device is not showing up, click the *CONNECT* button in the bottom left-hand corner. This will scan all ports for any Heron Instruments devices.



The screenshot displays the Heron Instruments software interface. On the left sidebar, under the 'Resources' section, the 'Connected' dropdown menu is expanded, showing two devices: 'bar-Log 64: A15761' and 'dipper-Log 128+: B31413'. The 'dipper-Log 128+: B31413' device is highlighted with a blue selection bar. At the bottom left of the sidebar, a 'CONNECT' button is visible. The main panel shows the 'Overview' tab for the selected device, displaying 'Device Information' such as 'Device: dipper-Log 128+', 'Serial #: B31413', 'Range: 32.8ftH2O', and 'Max Data Sets: 128,000'. It also shows 'Battery Lifespan: 100%' and 'Memory Usage: 12%'. At the bottom right, a 'VIEW ALL' button is present.

Find the logger in the data management panel under *Projects* and click on the device.

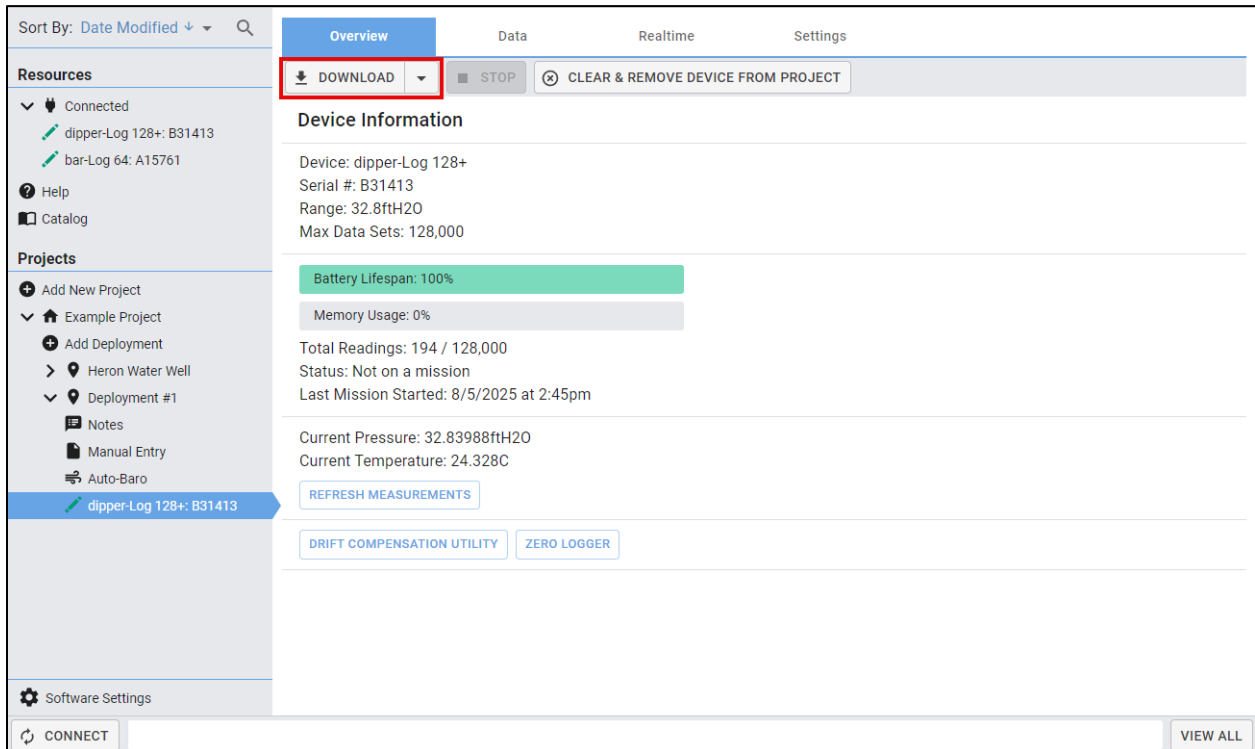
Note: Connected devices will have a green logger icon, while disconnected devices will have a black logger icon.



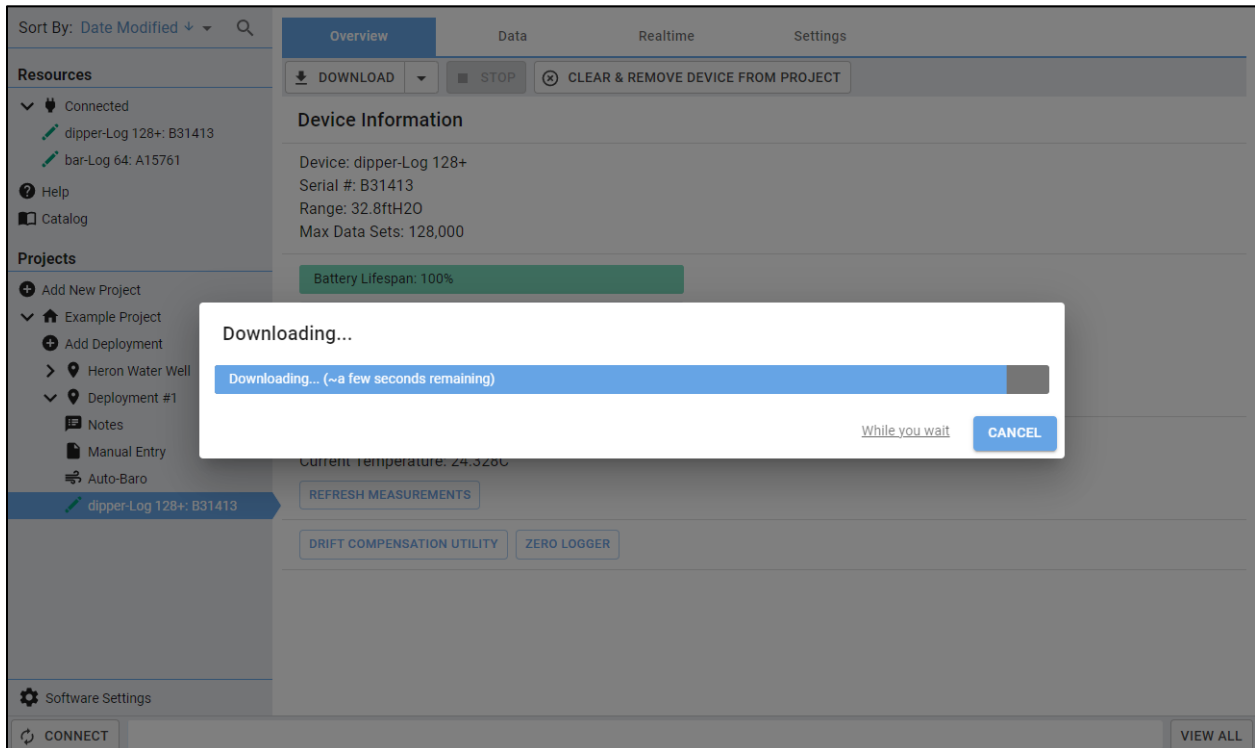
The screenshot displays the Heron Instruments software interface. On the left, the 'Resources' panel is visible, with the 'Projects' section highlighted by a red box. Within 'Projects', the 'dipper-Log 128+ B31413' entry is selected, indicated by a red arrow. The main panel shows the 'Overview' tab for this device. It includes a 'Device Information' section with details: Device: dipper-Log 128+, Serial #: B31413, Range: 32.8ftH2O, and Max Data Sets: 128,000. Below this, there are status bars for 'Battery Lifespan: 100%' and 'Memory Usage: 0%'. Further down, it shows 'Memory will be full: 10/19/2054', 'Total Readings: 1 / 128,000', and 'Current Mission Started: 8/5/2025 at 2:31pm'. At the bottom, it displays 'Current Pressure: 32.84346ftH2O' and 'Current Temperature: 24.367C'. There are buttons for 'REFRESH MEASUREMENTS', 'DRIFT COMPENSATION UTILITY', and 'ZERO LOGGER'. The bottom of the interface features a 'CONNECT' button and a 'VIEW ALL' button.

Downloading the Data

Click the **DOWNLOAD** button and your data will begin downloading.



The screenshot shows the Heron Instruments software interface. On the left, there is a sidebar with 'Resources' and 'Projects' sections. The 'Resources' section lists 'Connected' devices: 'dipper-Log 128+: B31413' and 'bar-Log 64: A15761'. The 'Projects' section shows 'Example Project' with sub-items like 'Add Deployment', 'Heron Water Well', 'Deployment #1', 'Notes', 'Manual Entry', and 'Auto-Baro'. The 'dipper-Log 128+: B31413' device is selected. The main area displays the 'Overview' tab for this device. At the top, there are buttons: 'DOWNLOAD' (highlighted with a red box), 'STOP', and 'CLEAR & REMOVE DEVICE FROM PROJECT'. Below these are 'Device Information' details: Device: dipper-Log 128+, Serial #: B31413, Range: 32.8ftH2O, Max Data Sets: 128,000. There are also progress bars for 'Battery Lifespan: 100%' and 'Memory Usage: 0%'. Other information includes 'Total Readings: 194 / 128,000', 'Status: Not on a mission', and 'Last Mission Started: 8/5/2025 at 2:45pm'. Current readings for pressure and temperature are shown. At the bottom, there are buttons for 'REFRESH MEASUREMENTS', 'DRIFT COMPENSATION UTILITY', and 'ZERO LOGGER'. A 'CONNECT' button is at the bottom left, and a 'VIEW ALL' button is at the bottom right.



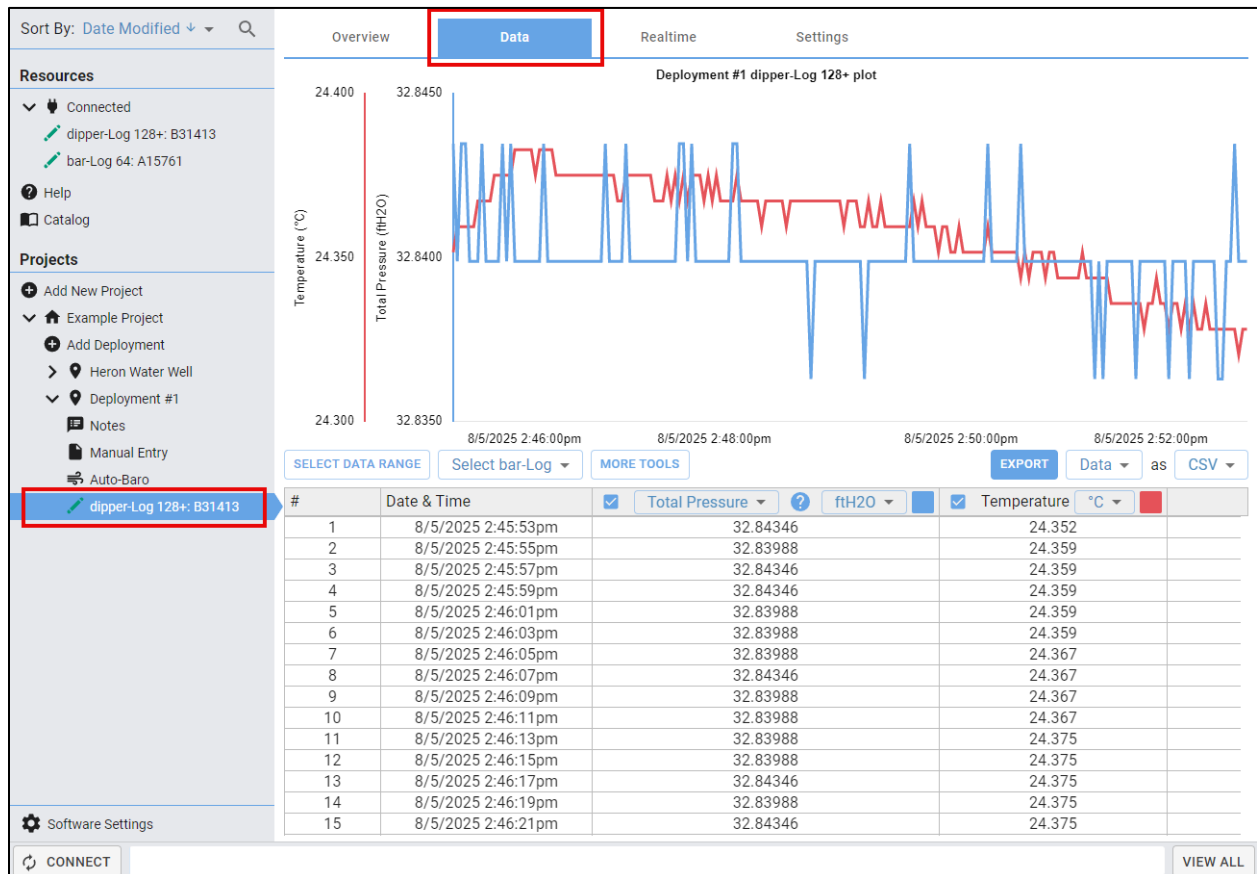
This screenshot shows the same software interface as the previous one, but with a 'Downloading...' dialog box overlaid in the center. The dialog box has a title bar 'Downloading...' and a progress bar that is nearly full, with the text 'Downloading... (~a few seconds remaining)'. Below the progress bar, there is a link 'While you wait' and a 'CANCEL' button. The background interface is dimmed, showing the same 'Overview' tab for the 'dipper-Log 128+: B31413' device.

Viewing and Refining the Data

Data Tab

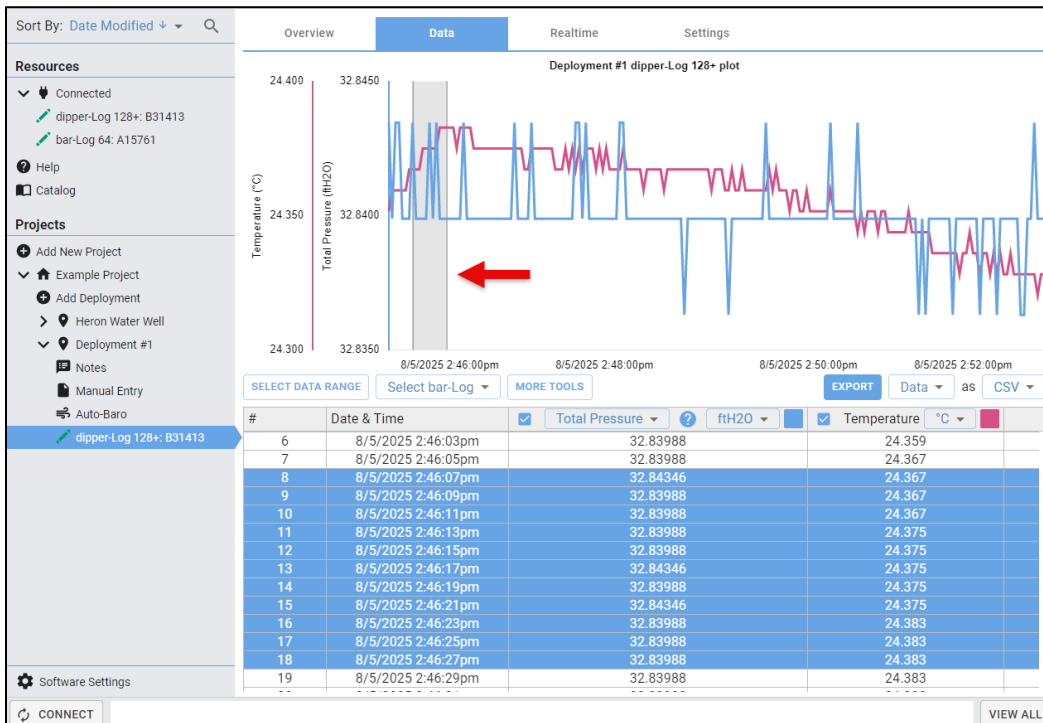
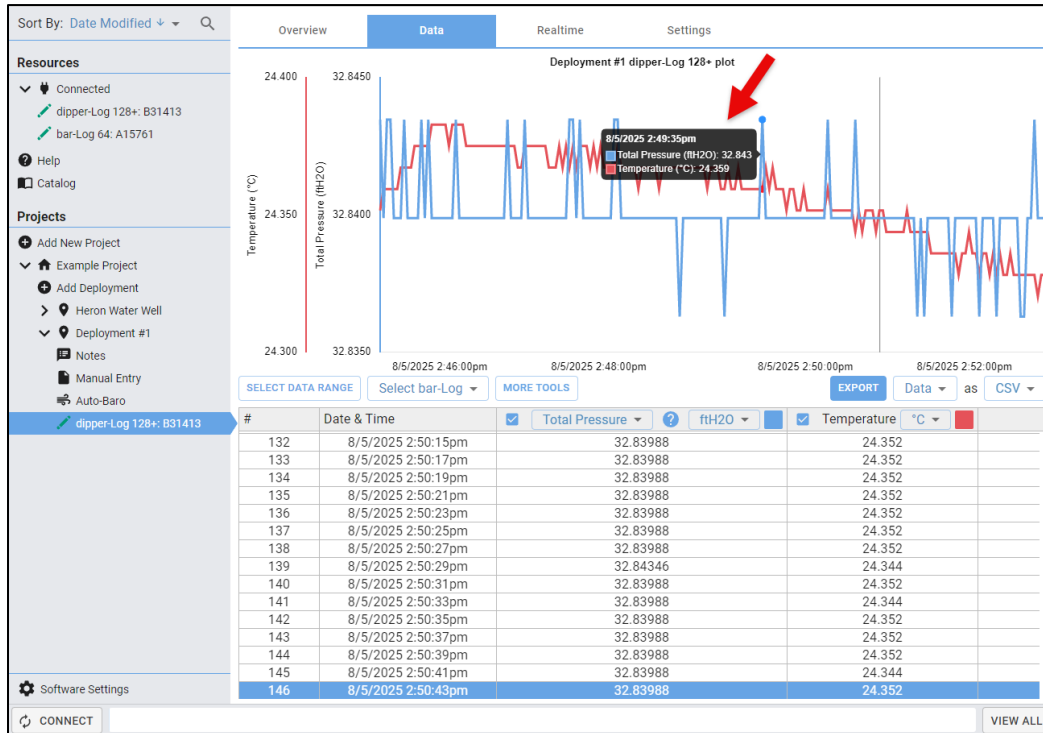
Navigate to the desired device in the data management panel under *Projects*. Select the device and click on the *Data* tab. Note: Your device does not need to be actively connected if the data was previously downloaded.

A view of all the downloaded data will be displayed.

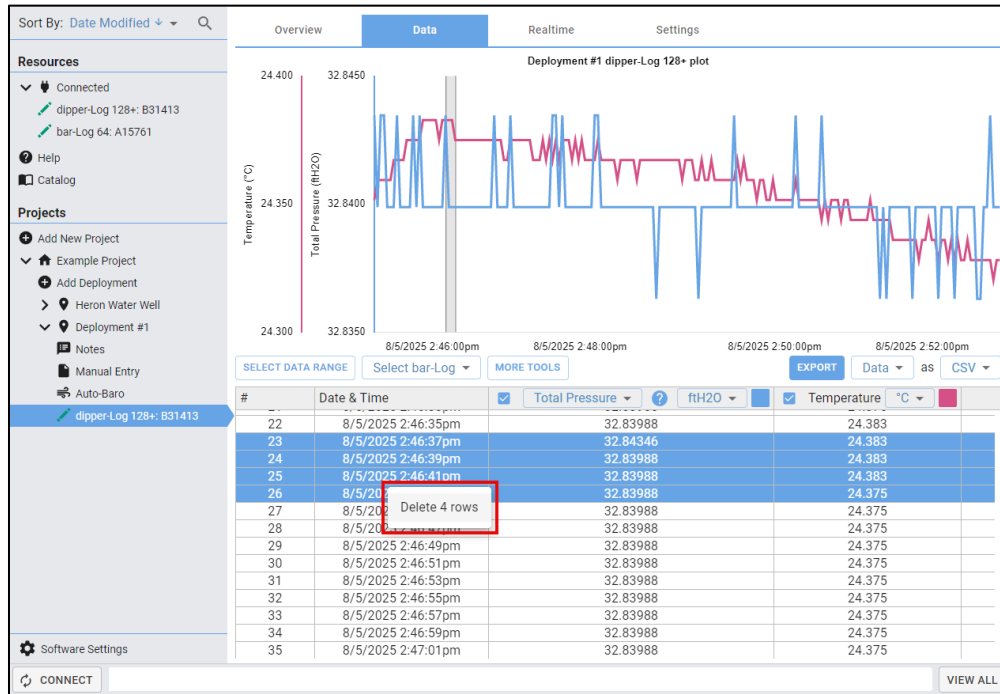


Viewing Specific Data Points on the Graph

By default, all parameters will be visible on the graph. Hover over the graph (or click and drag on touch screen devices) to see details of specific data points. Clicking on the graph will highlight the corresponding data point in the table. Clicking and dragging will select a region on the graph and the corresponding data points will be highlighted in the table.

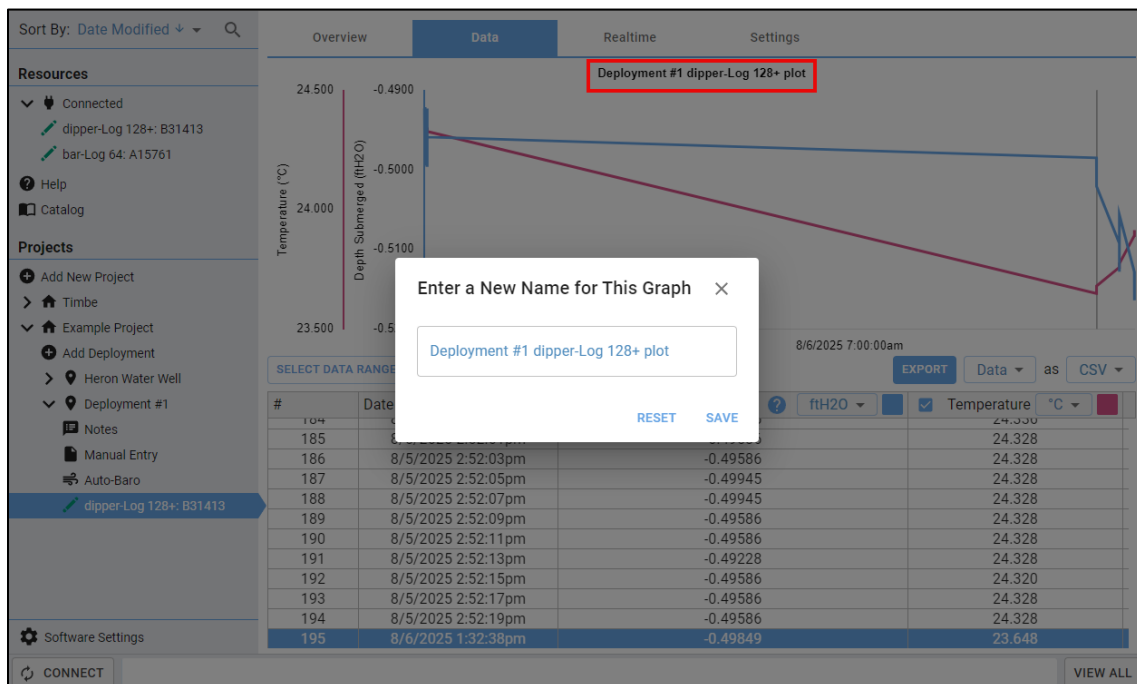


Delete unwanted data points by selecting them in the table, right-clicking and pressing delete. Note: This action cannot be undone – deleted data cannot be recovered.



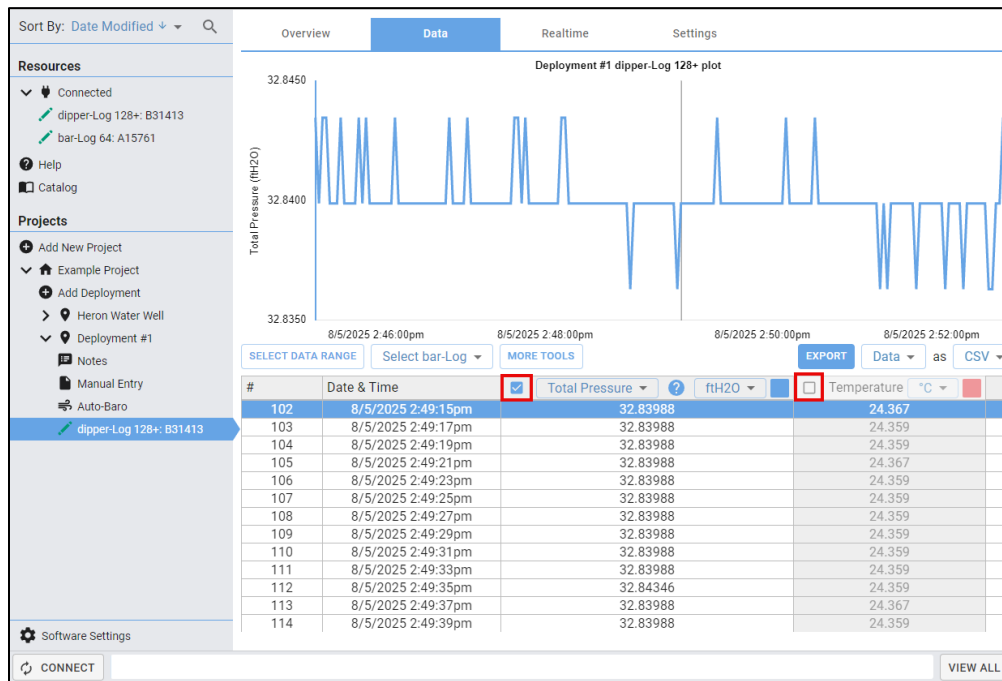
Changing the Graph Title

Click on the title at the top of the graph and enter the new title in the pop-up window. Click the *RESET* button to return to the default title.

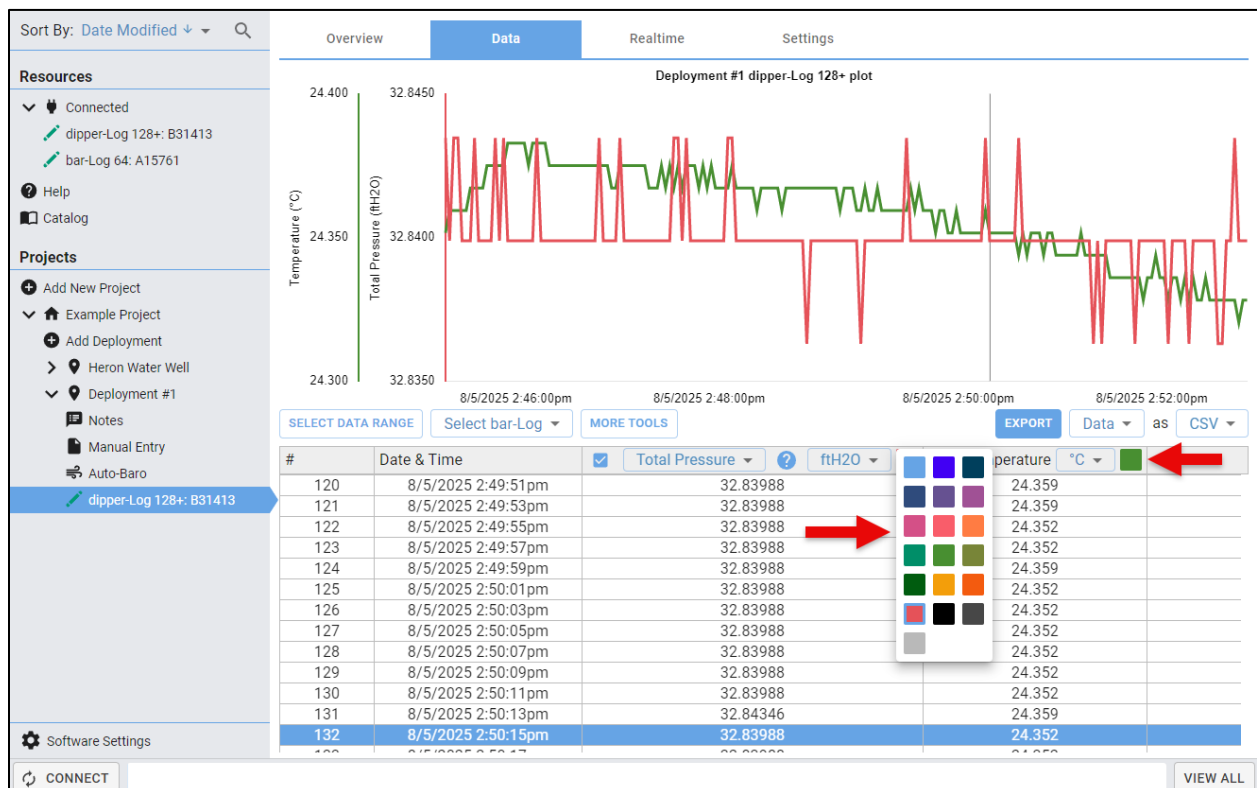


Modifying the Parameters Shown on the Graph and their Colours

Modify the parameters shown in the graph by selecting/deselecting the columns in the chart.

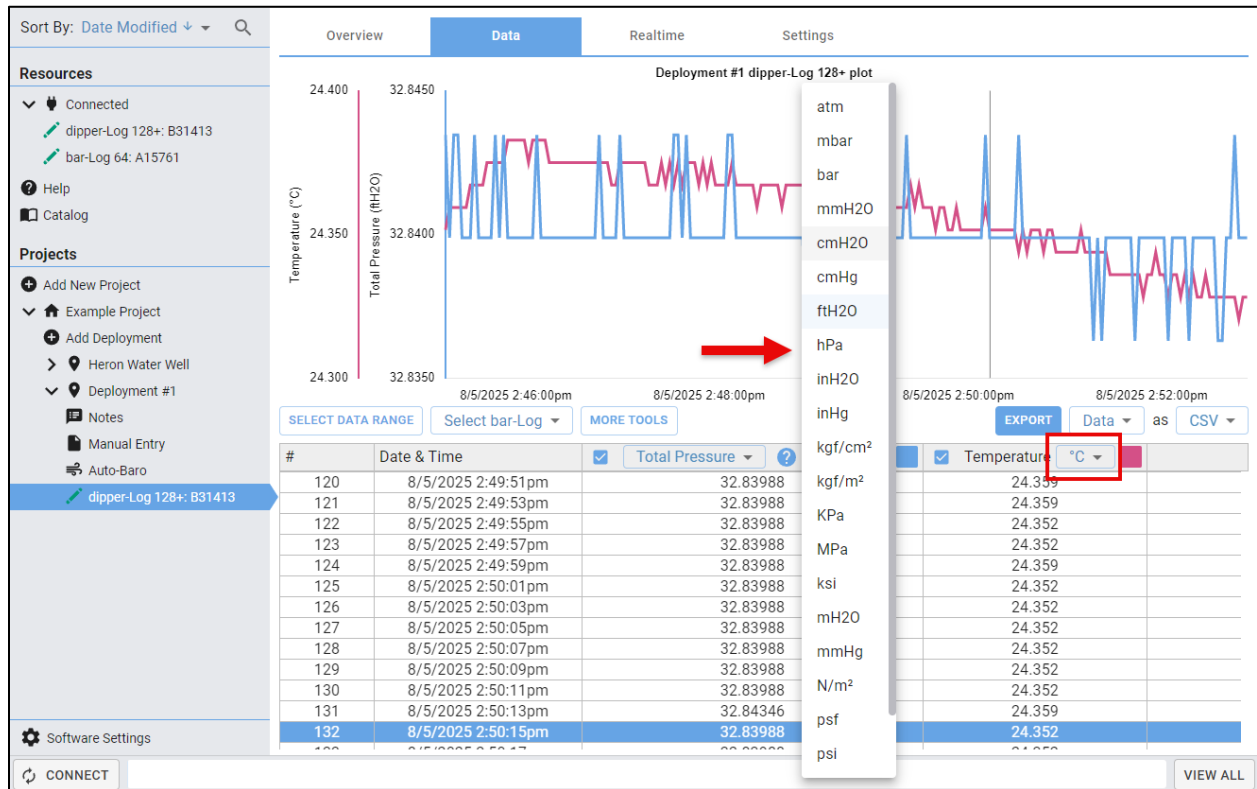


Change the line colour on the graph by selecting the colour swatches in the chart header. Choose a colour and the graph will be updated to reflect your new selection.



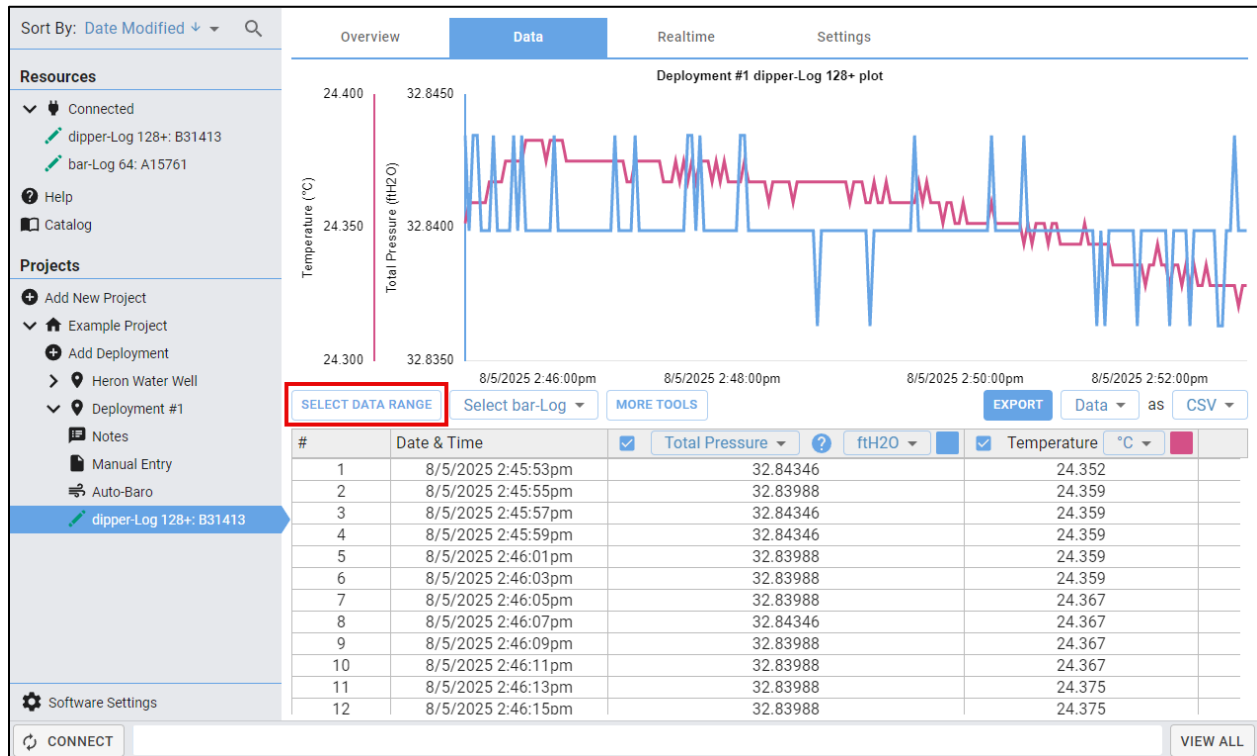
Changing the Units

Click on the units in the chart header and a dropdown menu will appear. All the data points and the graph will automatically update when a new unit is selected.



Filtering the Data Range

Refine your data by clicking on the *SELECT DATA RANGE* button. In the pop-up window you can filter your data by a date range or the download date and apply upper and lower limits to the Y-axis.



To enter a specific date range, go to the *By Date Range* tab, input a start and end date. Hitting *RESET* will set the date range to cover all data points available (the default setting). Clicking on *REMOVE FILTER* will remove the filter entirely. To filter the data to a specific download date, go to *By Download Date* tab and select a download date from the dropdown list.

Sort By: Date Modified ▾ 🔍

Overview Data Realtime Settings

Resources

- Connected
 - dipper-Log 128+: B31413
 - bar-Log 64: A15761
- Help
- Catalog

Projects

- Add New Project
- Example Project
 - Add Deployment
 - Heron Water Well
 - Notes
 - Manual Entry
 - Auto-Baro
 - dipper-Log Vented+: B50603
 - Deployment #1

Software Settings

CONNECT

Temperature (°C)

Depth Submerged (ftH2O)

Filter by Date ✕

BY DATE RANGE BY DOWNLOAD DATE

Start
11/14/2024 06:13:00am

End
11/18/2024 06:58:00am

RESET REMOVE FILTER

Define Y Axis

☐ Apply upper and lower pressure limits

Maximum Displayed Pressure *
0 ftH2O ▾

Minimum Displayed Pressure *
0 ftH2O ▾

☐ Apply upper and lower temperature limits

Maximum Displayed Temperature *
0 °C ▾

Minimum Displayed Temperature *
0 °C ▾

DONE

11/16/2024 11:00:00pm

EXPORT Data as CSV ▾

view all

ftH2O ▾	Temperature °C ▾
10.789	10.789
10.789	10.789
10.781	10.773
10.781	10.781
10.781	10.781
10.789	10.789
10.789	10.789
10.797	10.797
10.805	10.805
10.828	10.828

VIEW ALL

Sort By: Date Modified ▾ 🔍

Overview Data Realtime Settings

Resources

- Connected
 - dipper-Log 128+: B31413
 - bar-Log 64: A15761
- Help
- Catalog

Projects

- Add New Project
- Example Project
 - Add Deployment
 - Heron Water Well
 - Notes
 - Manual Entry
 - Auto-Baro
 - dipper-Log Vented+: B50603
 - Deployment #1

Software Settings

CONNECT

Temperature (°C)

Depth Submerged (ftH2O)

Filter by Date ✕

BY DATE RANGE BY DOWNLOAD DATE

Download Date
Select a Date ▾

Select a Date
11/20/2024 at 2:58pm

Define Y Axis

☐ Apply upper and lower pressure limits

Maximum Displayed Pressure *
0 ftH2O ▾

Minimum Displayed Pressure *
0 ftH2O ▾

☐ Apply upper and lower temperature limits

Maximum Displayed Temperature *
0 °C ▾

Minimum Displayed Temperature *
0 °C ▾

DONE

11/14/2024 9:13:00am 14.14150

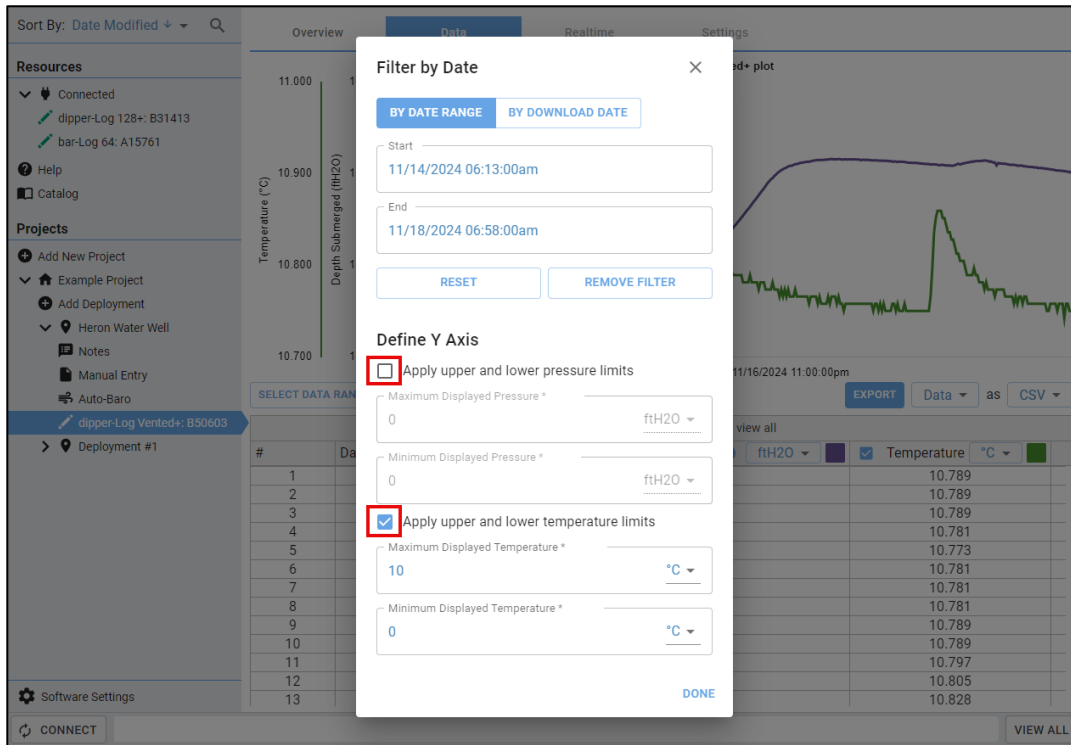
EXPORT Data as CSV ▾

view all

ftH2O ▾	Temperature °C ▾
10.789	10.789
10.789	10.789
10.789	10.789
10.781	10.773
10.781	10.781
10.781	10.781
10.789	10.789
10.789	10.789
10.797	10.797
10.805	10.805
10.828	10.828

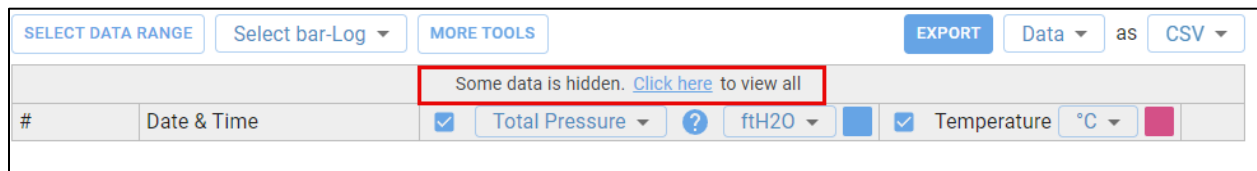
VIEW ALL

To define upper and lower parameter limits, check the applicable box under *Define Y Axis*. Input a maximum and minimum value and select your units. Note: the units do not need to match the units selected in the chart; they will be converted automatically.



The screenshot shows the Heron Instruments software interface. A 'Filter by Date' dialog box is open, allowing users to filter data by date range or download date. Below this, the 'Define Y Axis' section is visible, where users can define upper and lower limits for pressure and temperature. The 'Apply upper and lower temperature limits' checkbox is checked, and the 'Maximum Displayed Temperature' is set to 10 °C. The 'Minimum Displayed Temperature' is set to 0 °C. The 'DONE' button is at the bottom right of the dialog.

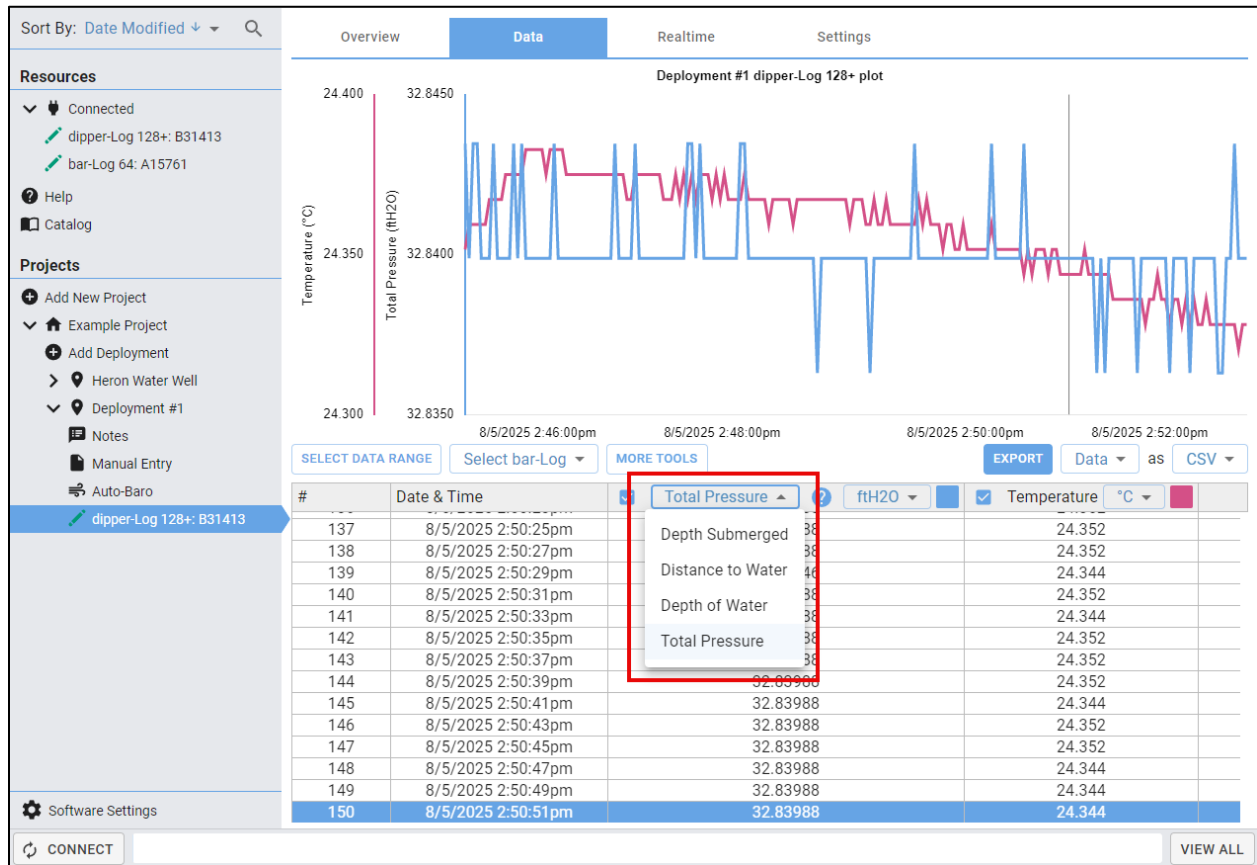
Click *DONE* once you have added your desired filters and the table and graph will update. A bar will appear indicating that some of your data is hidden. Use the [Click here](#) button to view your unfiltered data.



The screenshot shows the Heron Instruments software interface with the data table and the 'Some data is hidden' message. The message is highlighted with a red box, and the 'Click here' link is also highlighted. The data table shows columns for #, Date & Time, Total Pressure, and Temperature. The 'Total Pressure' column is set to ftH2O and the 'Temperature' column is set to °C.

Pressure Loggers

When using a pressure logger, the default header will be *Total Pressure*. You can select alternatives by clicking on the header and selecting an option from the drop-down menu.



Total Pressure: The raw pressure values measured by the pressure transducer.

Depth Submerged: The vertical distance from the water's surface to the logger's pressure transducer.

$$\text{Depth Submerged} = \text{Total Pressure} - \text{Barometric Pressure}^*$$

*See the following section ([Barometric Pressure Compensation](#)) to select the source for barometric pressure

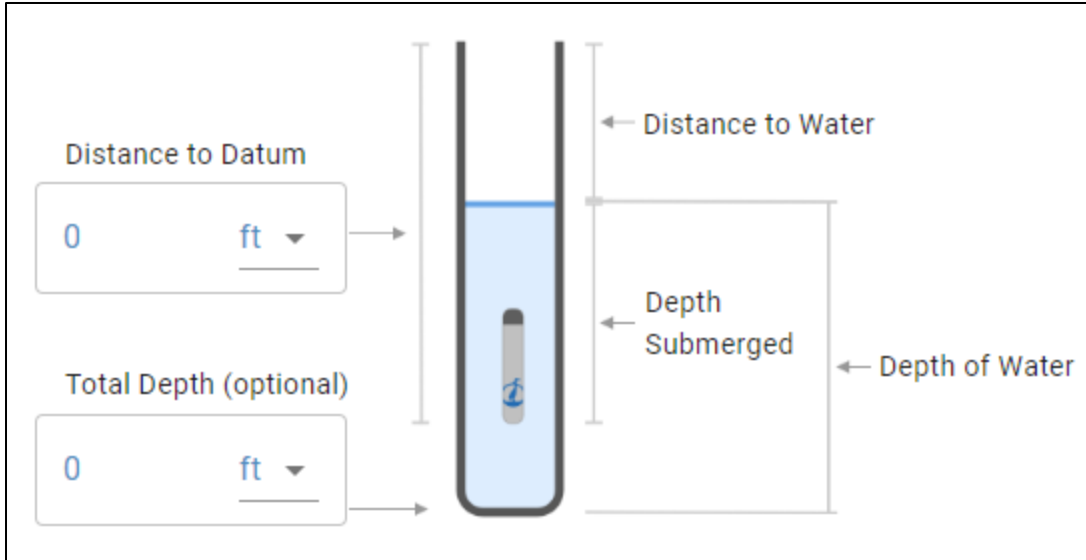
Distance to Water: The vertical distance from your datum point to the water's surface

$$\text{Distance to Water} = \text{Distance to Datum} - \text{Depth Submerged}$$

Depth of Water: The vertical distance from the water's surface to the bottom of the body of water.

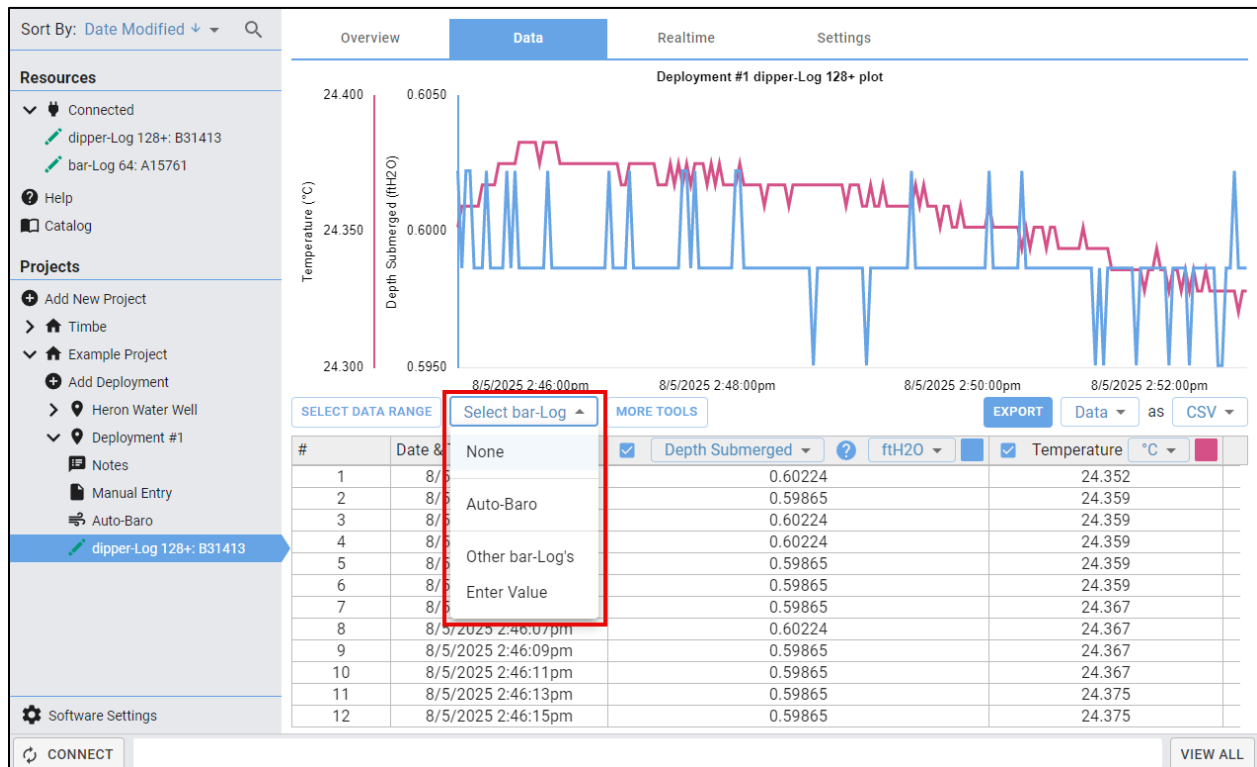
*Only available if *Total Depth* has been entered*

$$\text{Depth of Water} = \text{Total Depth} - \text{Distance to Water}$$



Barometric Pressure Compensation

There are three sources of barometric pressure that can be used to compensate your data: Auto-Baro, bar-Log or a manual entry. Click on the *Select bar-Log* button to view a dropdown menu of the options.



The screenshot shows the Heron Instruments software interface. The 'Data' tab is selected, displaying a graph of Temperature (°C) and Depth Submerged (ftH2O) over time. A dropdown menu for 'Select bar-Log' is open, showing options: None, Auto-Baro, Other bar-Log's, and Enter Value. The background shows a table of data points.

#	Date & Time	Depth Submerged (ftH2O)	Temperature (°C)
1	8/5/2025 2:46:00pm	0.60224	24.352
2	8/5/2025 2:46:07pm	0.59865	24.359
3	8/5/2025 2:46:09pm	0.60224	24.359
4	8/5/2025 2:46:11pm	0.60224	24.359
5	8/5/2025 2:46:13pm	0.59865	24.359
6	8/5/2025 2:46:15pm	0.59865	24.359
7	8/5/2025 2:46:15pm	0.59865	24.367
8	8/5/2025 2:46:15pm	0.60224	24.367
9	8/5/2025 2:46:15pm	0.59865	24.367
10	8/5/2025 2:46:15pm	0.59865	24.367
11	8/5/2025 2:46:15pm	0.59865	24.375
12	8/5/2025 2:46:15pm	0.59865	24.375

Auto-Baro

Select Auto-Baro from the dropdown list. This will automatically compensate your data based on the location chosen in device setup. For more information on the Auto-Baro feature please see the [Auto-Baro](#) chapter.

Bar-Log

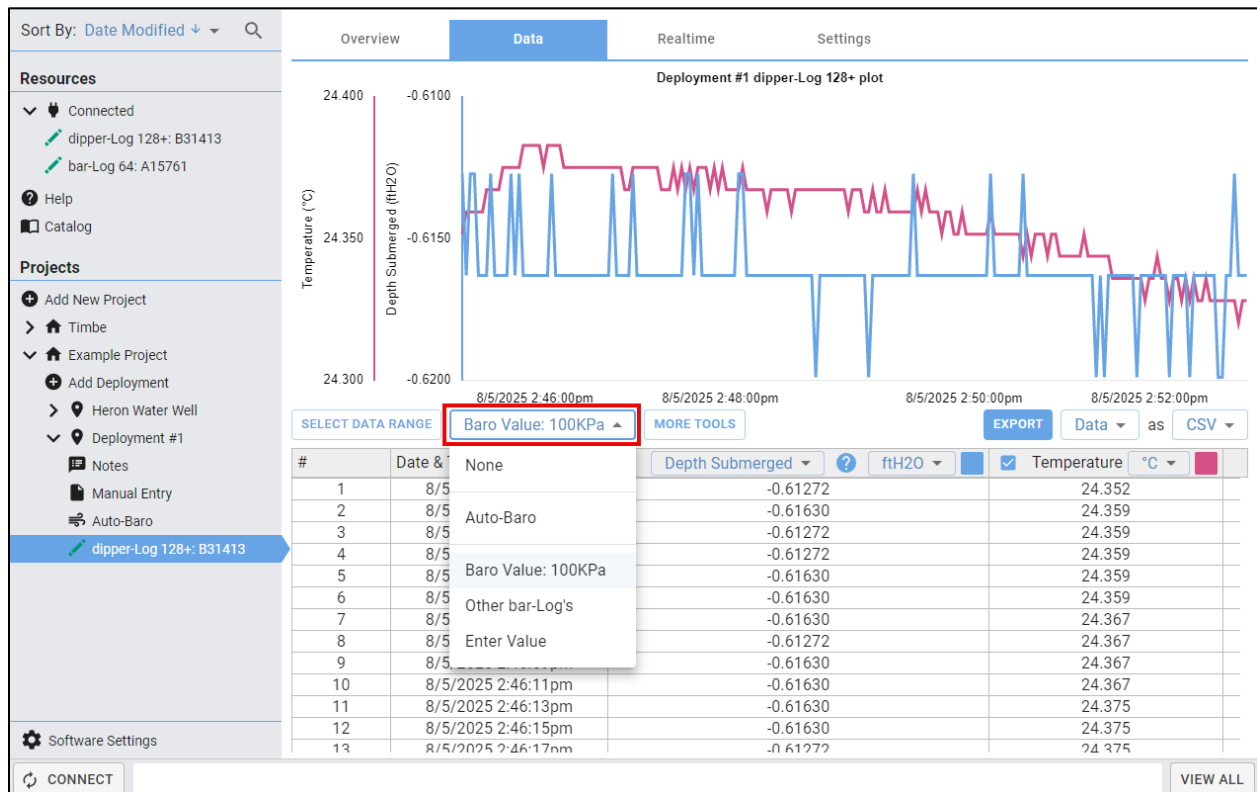
Select *Other bar-Log's* from the dropdown list. In the pop-up window, select the desired bar-Log. To view other dipper-Logs, check the *Show dipper-Logs box*. This allows you to select a dipper-Log to compensate your data—however, this is not recommended.

Manual Entry

Select *Enter Value* from the dropdown list. Input a barometric pressure value and select the units (they do not need to match the table units).

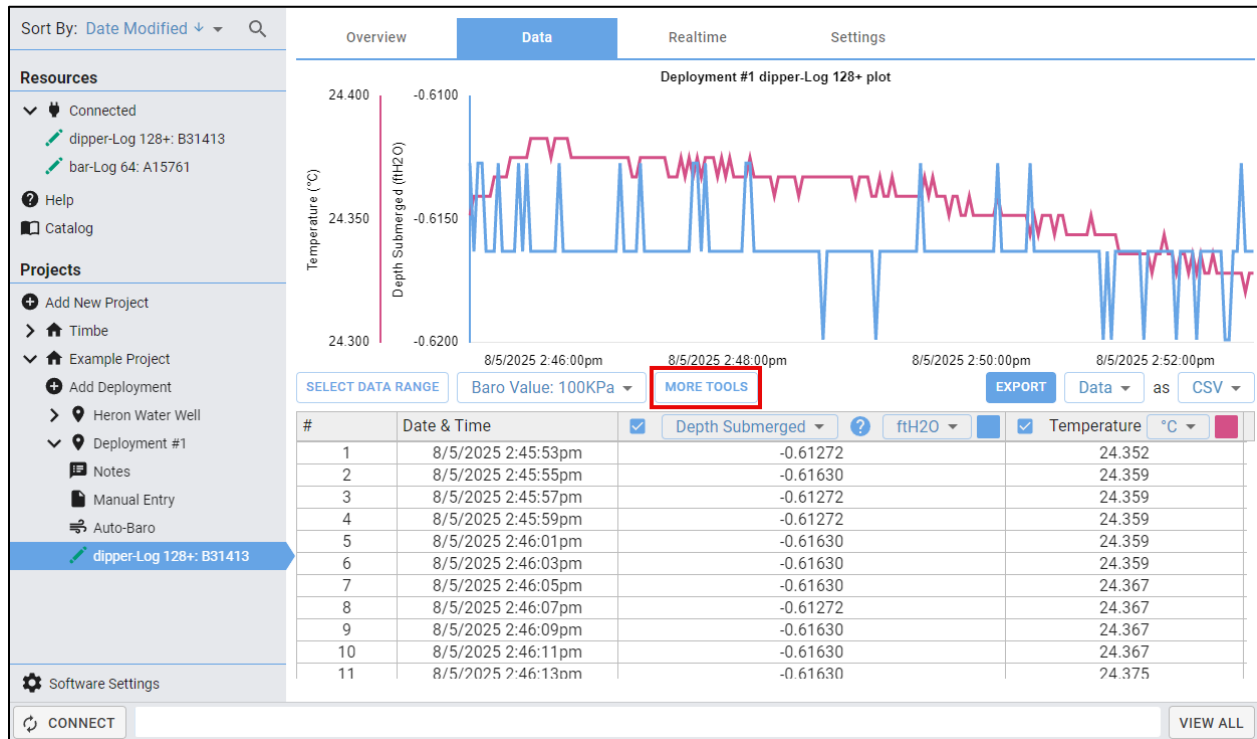
The field box will indicate which compensation source you are using. To remove a source, click on the field box and select *None*.

If no source is selected, the software will use the back-up barometric pressure/programmed value stored in the logger (from [zeroing the logger](#)) to calculate depth submerged.



More Tools

Additional tools are available to manipulate your data. They can help account for elevation and/or density differences and correct for mistakes made during setup or deployment.



Click on the *MORE TOOLS* button. You have the option to:

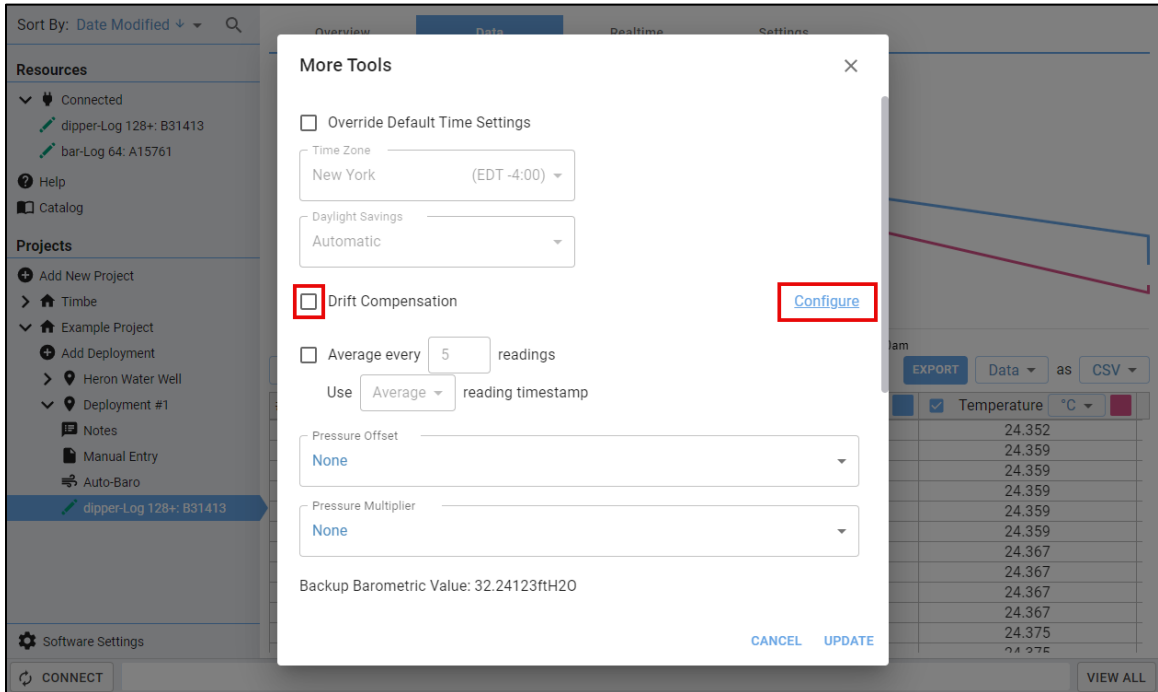
- Override the default time settings
- Apply drift compensation
- Average your readings
- Apply a pressure offset
- Apply a pressure multiplier
- Adjust *Distance to Datum* and *Total Depth* values
- Override the default decimal place setting
- Adjust data to match manual entry from a water level meter

Override the Default Time Settings

Check the *Override Default Time Settings* box and select your time settings from the dropdown menus.

Drift Compensation

To apply drift compensation, check the *Drift Compensation* box. See the [Drift Compensation](#) section for more details on configuring this tool.



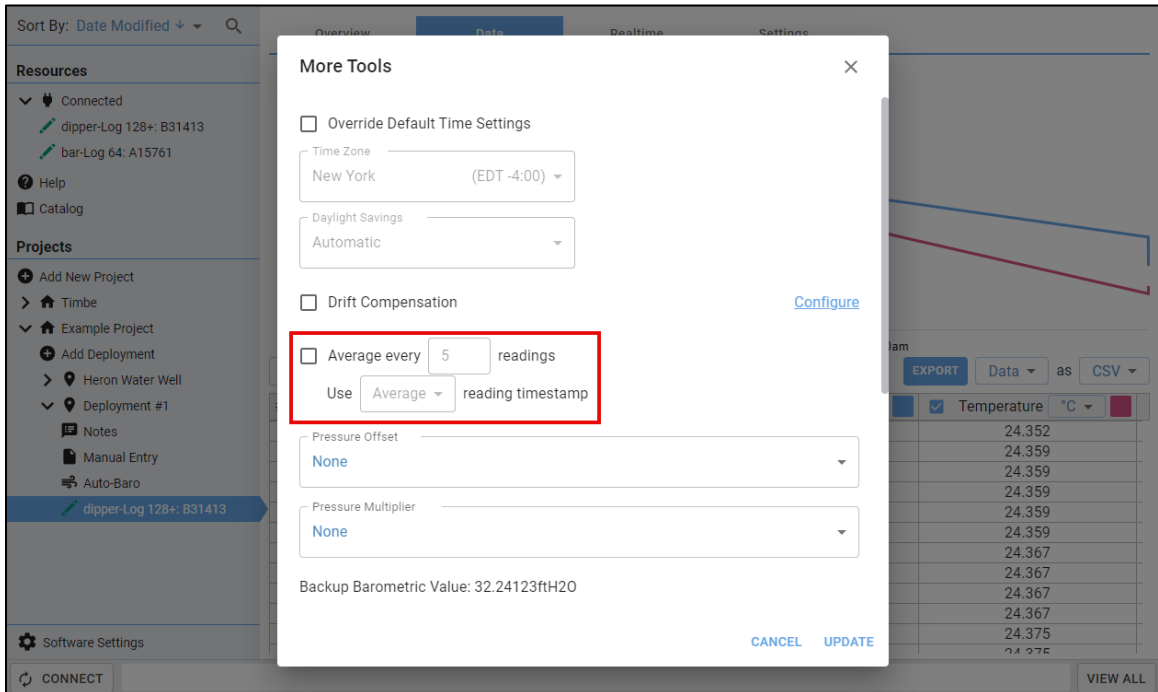
The screenshot displays the Heron Instruments software interface. A 'More Tools' dialog box is open, showing various configuration options. The 'Drift Compensation' checkbox is checked and highlighted with a red box. The 'Configure' button is also highlighted with a red box. The dialog box includes options for overriding default time settings, setting the time zone to New York (EDT -4:00), and daylight savings to Automatic. It also features a section for averaging readings, with 'Average every 5 readings' and 'Use Average reading timestamp' selected. The 'Pressure Offset' and 'Pressure Multiplier' are both set to 'None'. The 'Backup Barometric Value' is listed as 32.24123ftH2O. The background shows a sidebar with 'Resources' and 'Projects' sections, and a main area with a data table and a line graph.

Temperature	°C
24.352	
24.359	
24.359	
24.359	
24.359	
24.359	
24.367	
24.367	
24.367	
24.367	
24.375	
24.375	

Averaging the Readings

Check the box next to “Average every ___ readings.” This feature will average a group of readings into one data point. The new data point will assume the time stamp of the first reading, last reading or average timestamp of the group.

For example, if “Average every 5 readings, use first reading timestamp” was inputted, it would average every 5 readings into one (500 readings would become 100 readings) and each reading would assume the timestamp of the first reading in each group.

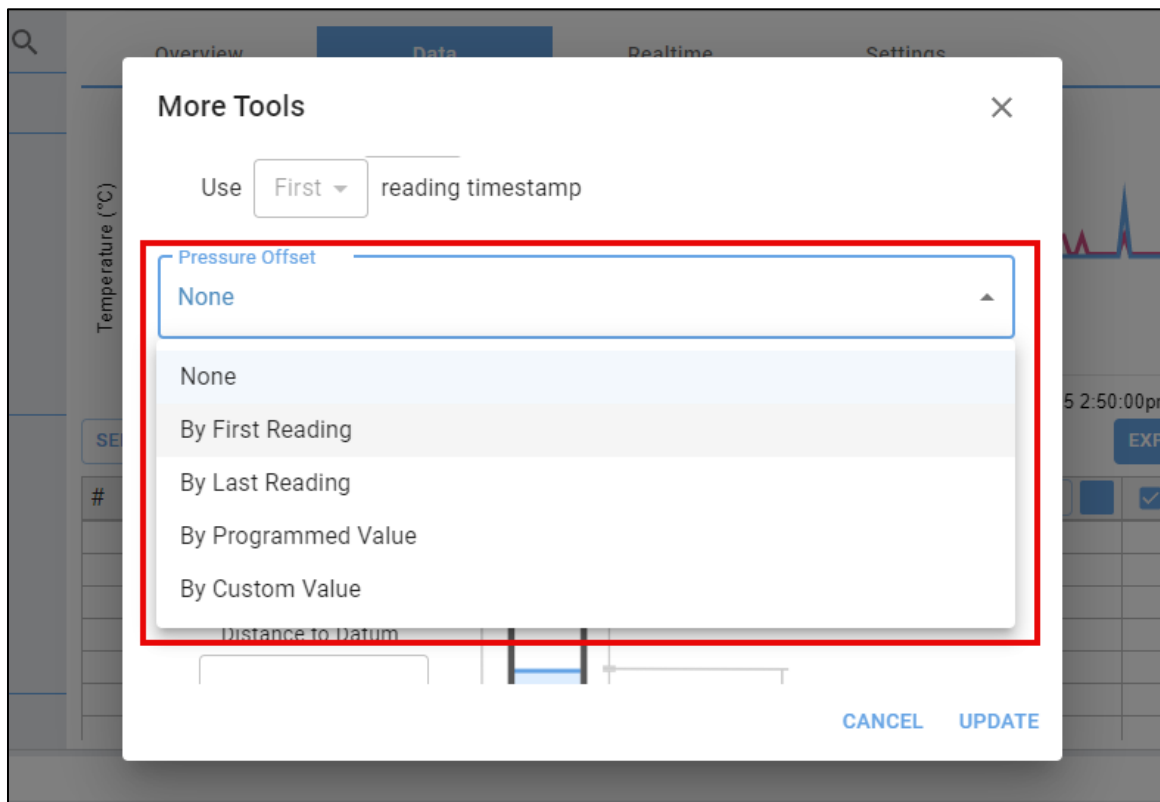


The screenshot displays the Heron Instruments software interface. A 'More Tools' dialog box is open, featuring several configuration options. A red rectangular box highlights the 'Average every 5 readings' checkbox and the 'Use Average reading timestamp' dropdown menu. The dialog also includes options for 'Override Default Time Settings' (Time Zone: New York, Daylight Savings: Automatic), 'Drift Compensation' (with a 'Configure' link), 'Pressure Offset' (set to None), and 'Pressure Multiplier' (set to None). The 'Backup Barometric Value' is listed as 32.24123ftH2O. At the bottom of the dialog are 'CANCEL' and 'UPDATE' buttons. The background interface shows a sidebar with 'Resources' (Connected devices: dipper-Log 128+, B31413; bar-Log 64: A15761) and 'Projects' (Add New Project, Example Project, Add Deployment, Heron Water Well, Deployment #1, Notes, Manual Entry, Auto-Baro). The main area displays a graph and a data table with columns for 'EXPORT', 'Data', 'as', and 'CSV'. The data table shows temperature readings in °C, with values ranging from 24.352 to 24.375.

Applying a Pressure Offset

To apply a constant shift to your pressure data set there are 4 options to choose from:

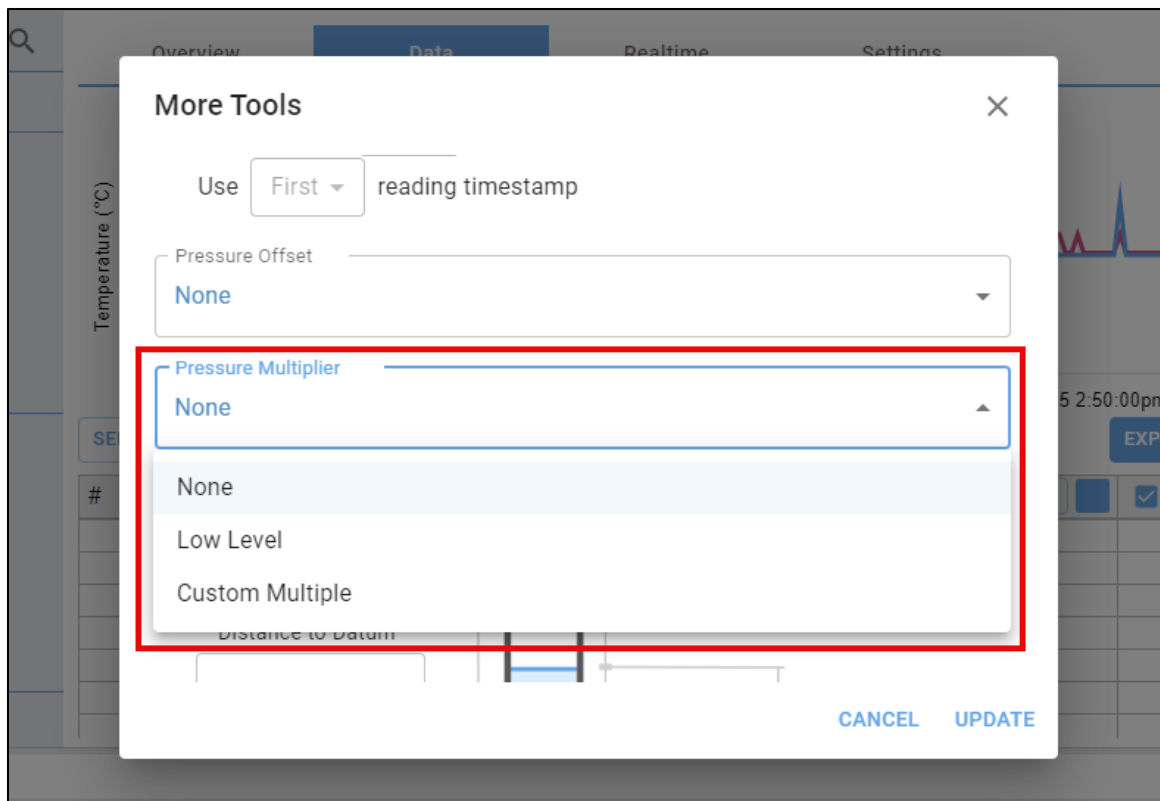
- By First Reading: Uses the first pressure reading of the mission as the constant barometric pressure value. Use when no bar-Log data is available and your dipperLog started logging before placement in the well.
- By Last Reading: Uses the last pressure reading of the mission as the constant barometric pressure value. Use when no bar-Log data is available and your dipperLog started logging when already submerged in the well.
- By Programmed Value: Uses the back-up barometric pressure value from [zeroing the logger](#).
- By Custom Value: Shifts the pressure values by a manually entered value.



Applying a Pressure Multiplier

To apply a constant scaling factor to the pressure dataset, there are 2 options to choose from:

- Low Level: Multiplies the pressure values by 0.9.
- Custom Multiple: Multiplies the pressure values by a manually entered value. Use this option when the liquid you are monitoring has a density that is not equal to 1 (e.g. seawater or brackish water).

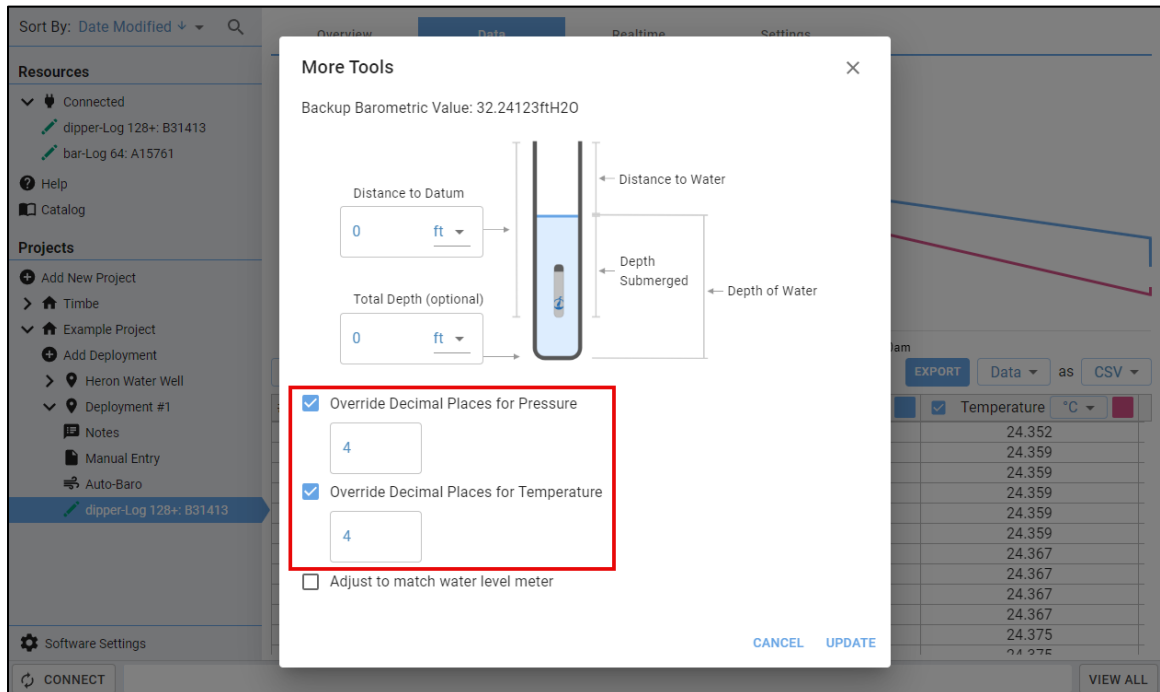


Adjust Distance to Datum and Total Depth values

Allows you to update the *Distance to Datum* and *Total Depth* values, if they differ from the values inputted during device setup.

Override Default Decimal Places

The default number of decimal places displayed is 3. To override this value, check the *Override Decimal Places* box for the desired parameter and input a number.



Sort By: Date Modified

Resources

- Connected
 - dipper-Log 128+: B31413
 - bar-Log 64: A15761
- Help
- Catalog

Projects

- Add New Project
- Timbe
- Example Project
 - Add Deployment
 - Heron Water Well
 - Deployment #1
- Notes
- Manual Entry
- Auto-Baro
- dipper-Log 128+: B31413

Software Settings

CONNECT

More Tools

Backup Barometric Value: 32.24123ftH2O

Distance to Datum: 0 ft

Total Depth (optional): 0 ft

Distance to Water

Depth Submerged

Depth of Water

☒ Override Decimal Places for Pressure

4

☒ Override Decimal Places for Temperature

4

☐ Adjust to match water level meter

CANCEL UPDATE

EXPORT Data as CSV

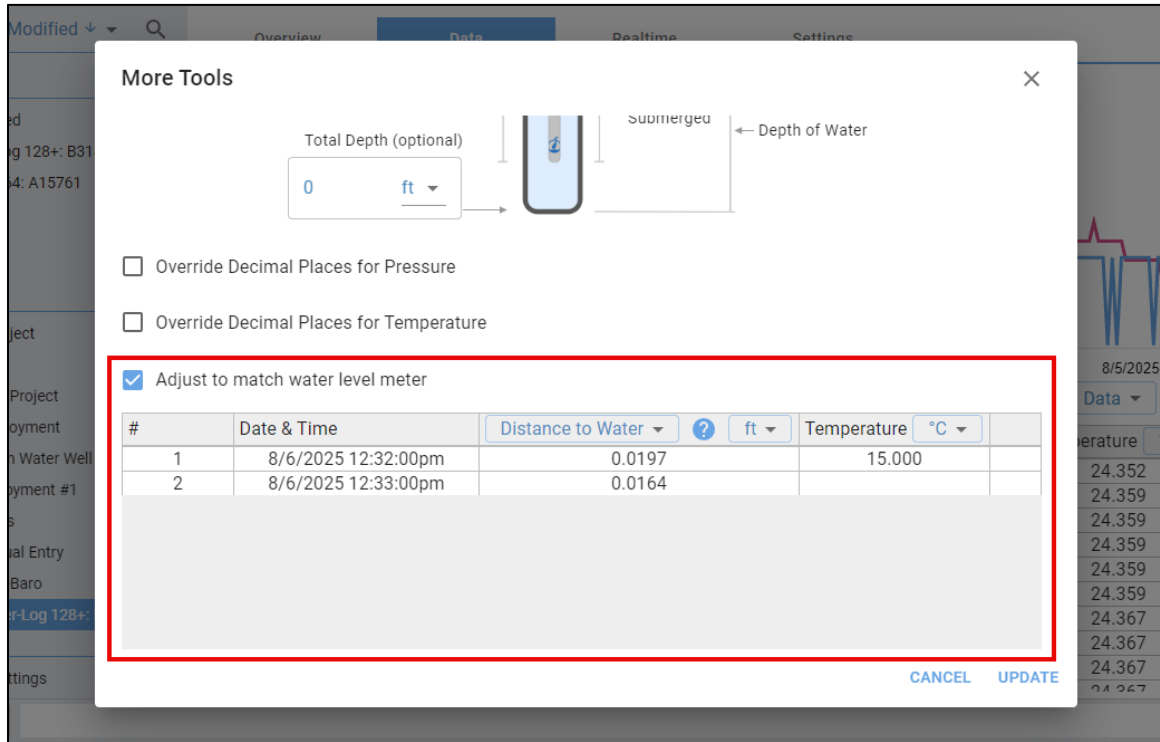
Temperature °C

24.352
24.359
24.359
24.359
24.359
24.359
24.367
24.367
24.367
24.367
24.367
24.375
24.375

VIEW ALL

Adjusting to Match a Water Level Meter

To adjust your dataset to match data that was collected using a Heron water level meter, check the *Adjust to match water level meter* box. This will pull data that was manually added to the *Manual Entry* section under the deployment. For more details on how to enter the data and the adjustments made, please see the [Manual Entry](#) chapter of this manual.



More Tools

Total Depth (optional) 0 ft

Submerged

Depth of Water

☐ Override Decimal Places for Pressure

☐ Override Decimal Places for Temperature

☒ Adjust to match water level meter

#	Date & Time	Distance to Water	Temperature
1	8/6/2025 12:32:00pm	0.0197	15.000
2	8/6/2025 12:33:00pm	0.0164	

CANCEL UPDATE

Once all desired tools have been employed, click *UPDATE* and your data will be adjusted. To modify your applied tools or revert to your original dataset, click the *MORE TOOLS* button and make your changes/deselect the boxes.

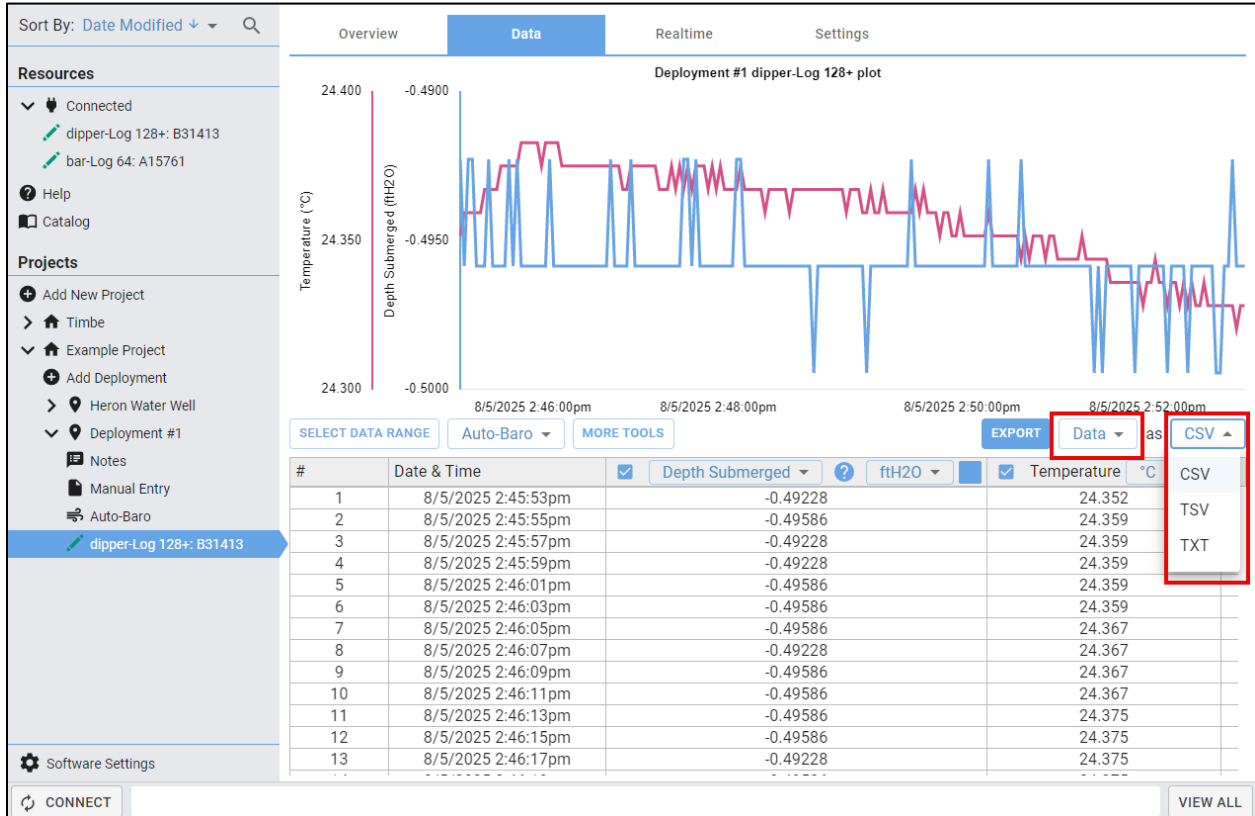
Exporting the Data

From the *Data* tab, you can export your data in the form of a table or a graph.

Exporting a Table

From the dropdown beside the *EXPORT* button, select *Data* and then select the file type. Any data filters, adjustments, etc. will be reflected in the exported data. Click *EXPORT* to finish.

To modify the default export settings, see the [Advanced Settings](#) section of the Changing the Default Settings chapter.




The screenshot shows the Heron Instruments software interface. The left sidebar contains a 'Resources' section with 'Connected' devices (dipper-Log 128+: B31413, bar-Log 64: A15761) and a 'Projects' section with 'Add New Project', 'Timbe', 'Example Project', 'Add Deployment', 'Heron Water Well', 'Deployment #1', 'Notes', 'Manual Entry', 'Auto-Baro', and 'dipper-Log 128+: B31413'. The main area has tabs for 'Overview', 'Data', 'Realtime', and 'Settings'. The 'Data' tab is active, showing a graph titled 'Deployment #1 dipper-Log 128+ plot' with 'Temperature (°C)' and 'Depth Submerged (ftH2O)' on the y-axis and time on the x-axis. Below the graph is a table with columns: '#', 'Date & Time', 'Depth Submerged', 'ftH2O', 'Temperature °C', and 'CSV'. The table contains 13 rows of data. The 'EXPORT' button is highlighted, and a dropdown menu is open showing 'Data' and 'as CSV' options. The 'CSV' option is selected, and a sub-menu is open showing 'CSV', 'TSV', and 'TXT' options.

#	Date & Time	Depth Submerged	ftH2O	Temperature °C	CSV
1	8/5/2025 2:45:53pm	-0.49228		24.352	
2	8/5/2025 2:45:55pm	-0.49586		24.359	
3	8/5/2025 2:45:57pm	-0.49228		24.359	
4	8/5/2025 2:45:59pm	-0.49228		24.359	
5	8/5/2025 2:46:01pm	-0.49586		24.359	
6	8/5/2025 2:46:03pm	-0.49586		24.359	
7	8/5/2025 2:46:05pm	-0.49586		24.367	
8	8/5/2025 2:46:07pm	-0.49228		24.367	
9	8/5/2025 2:46:09pm	-0.49586		24.367	
10	8/5/2025 2:46:11pm	-0.49586		24.367	
11	8/5/2025 2:46:13pm	-0.49586		24.375	
12	8/5/2025 2:46:15pm	-0.49586		24.375	
13	8/5/2025 2:46:17pm	-0.49228		24.375	

Exporting a Graph

From the dropdown beside the **EXPORT** button, select *Graph* and then select the file type. The exported graph will reflect exactly what is shown on the Heron Instruments software – including any filters, adjustments, etc. applied to the graph. Click **EXPORT** to finish.



The screenshot shows the Heron Instruments software interface. The left sidebar contains a 'Resources' section with 'Connected' devices: 'dipper-Log 128+: B31413' and 'bar-Log 64: A15761'. Below this is a 'Projects' section with 'Add New Project', 'Timbe', 'Example Project', 'Add Deployment', 'Heron Water Well', 'Deployment #1', 'Notes', 'Manual Entry', 'Auto-Baro', and 'dipper-Log 128+: B31413' (selected). The main area has tabs for 'Overview', 'Data', 'Realtime', and 'Settings'. The 'Data' tab is active, showing a graph titled 'Deployment #1 dipper-Log 128+ plot'. The graph displays 'Temperature (°C)' on the left y-axis (24.300 to 24.400) and 'Depth Submerged (ftH2O)' on the right y-axis (-0.4900 to -0.5000). The x-axis shows time from 8/5/2025 2:46:00pm to 8/5/2025 2:52:00pm. Below the graph is a table with columns: '#', 'Date & Time', 'Depth Submerged', 'ftH2O', and 'Temperature'. The table contains 12 rows of data. At the bottom right, the 'EXPORT' button is highlighted, and a dropdown menu is open showing 'Graph' and 'PNG' options. The 'PNG' option is selected.

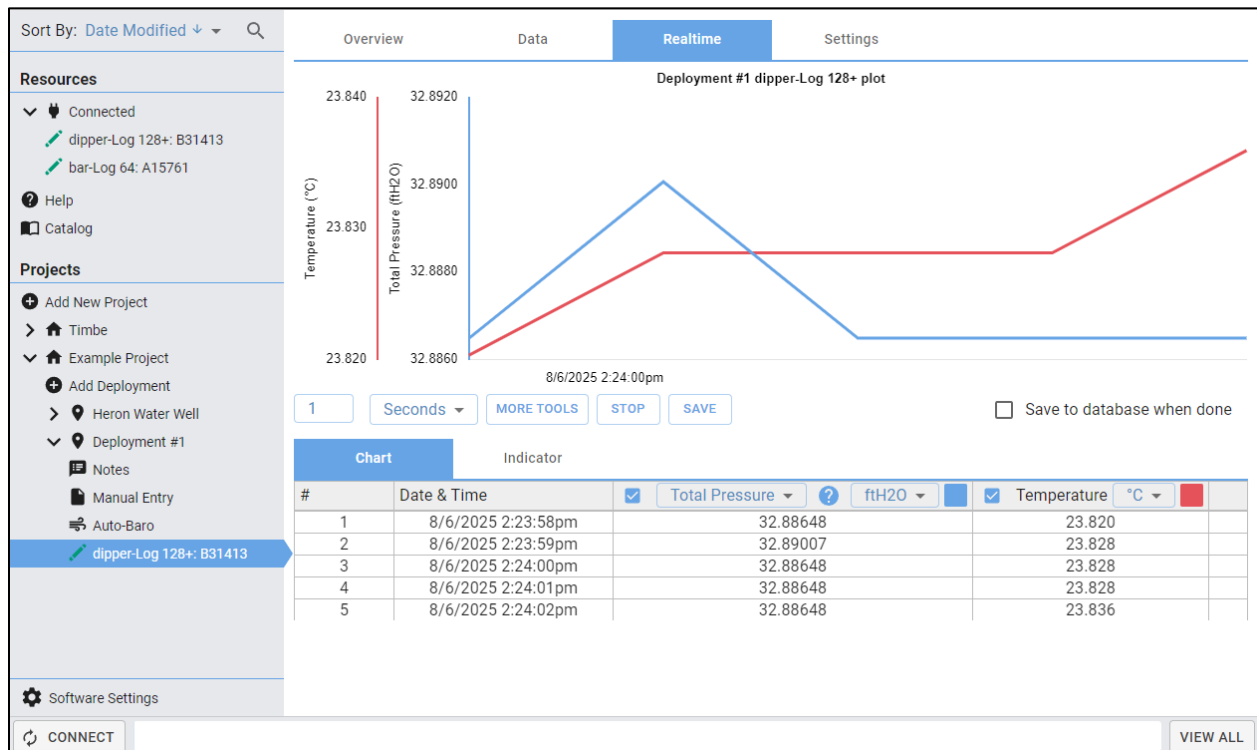
#	Date & Time	Depth Submerged	ftH2O	Temperature
1	8/5/2025 2:45:53pm	-0.49228		24.352
2	8/5/2025 2:45:55pm	-0.49586		24.359
3	8/5/2025 2:45:57pm	-0.49228		24.359
4	8/5/2025 2:45:59pm	-0.49228		24.359
5	8/5/2025 2:46:01pm	-0.49586		24.359
6	8/5/2025 2:46:03pm	-0.49586		24.359
7	8/5/2025 2:46:05pm	-0.49586		24.367
8	8/5/2025 2:46:07pm	-0.49228		24.367
9	8/5/2025 2:46:09pm	-0.49586		24.367
10	8/5/2025 2:46:11pm	-0.49586		24.367
11	8/5/2025 2:46:13pm	-0.49586		24.375
12	8/5/2025 2:46:15pm	-0.49586		24.375

Realtime Readings

Realtime readings can be accessed in the *Realtime* tab for connected devices. Realtime readings will immediately begin to populate the table and graph every 1 second.

This tab functions similarly to the *Data* tab. Details on how to modify the graph, changing parameters/units and using the *MORE TOOLS* options can be found under the [Viewing and Refining the Data](#) chapter.

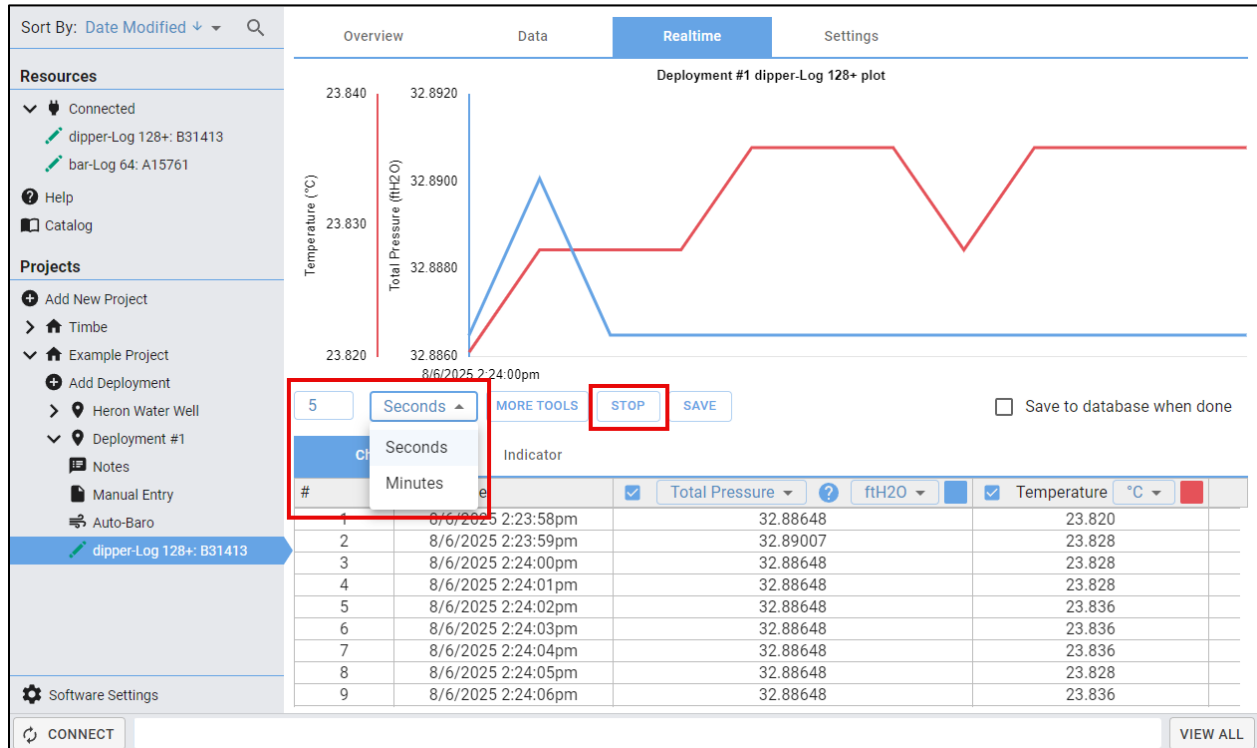
Note: To calculate the Depth Submerged in the Realtime readings the back-up/programmed value from [zeroing the logger](#) is used as the barometric pressure. For more details see the [Pressure Loggers](#) and [Barometric Pressure Compensation](#) sections.



Changing the Reading Interval and Pausing the Readings

The reading interval can be changed by entering a new value and selecting the time unit from the dropdown list on the *Realtime* tab.

Pause the real-time readings from populating by pressing the *STOP* button. Start the readings again by clicking the *START* button.



Auto-Scrolling

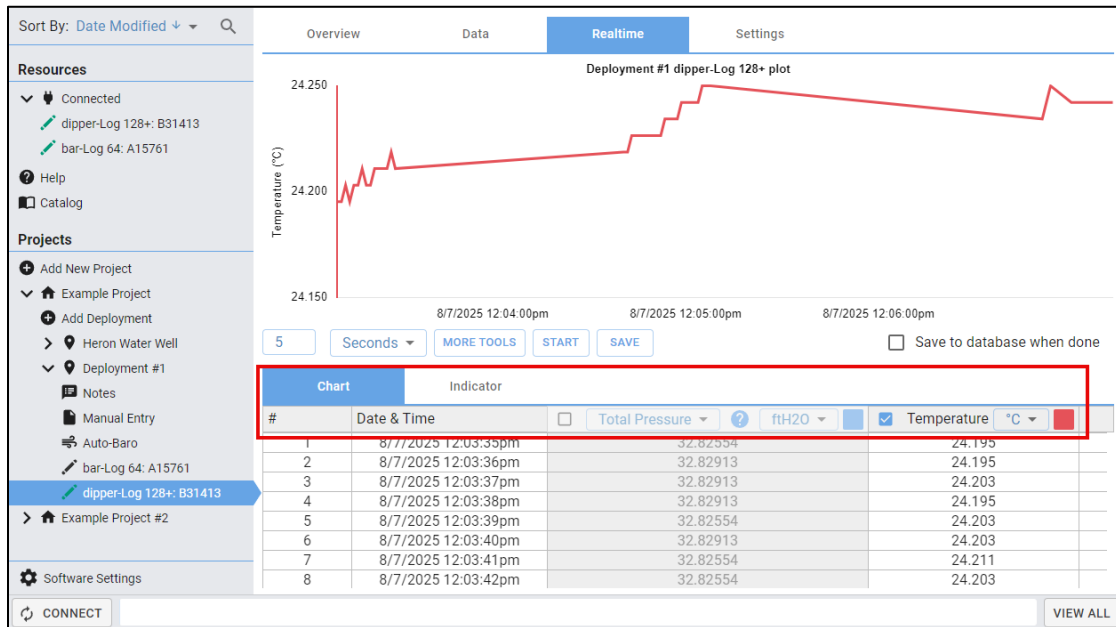
In *Realtime* view, new readings will add to the bottom of the table. The software will automatically scroll, so you are always able to see the new datapoint populated at the bottom.

If you scroll away from the bottom of the table, the auto-scrolling will pause allowing you to look at specific rows of the table without shifting. To resume the auto-scrolling, scroll to the very bottom of the table.

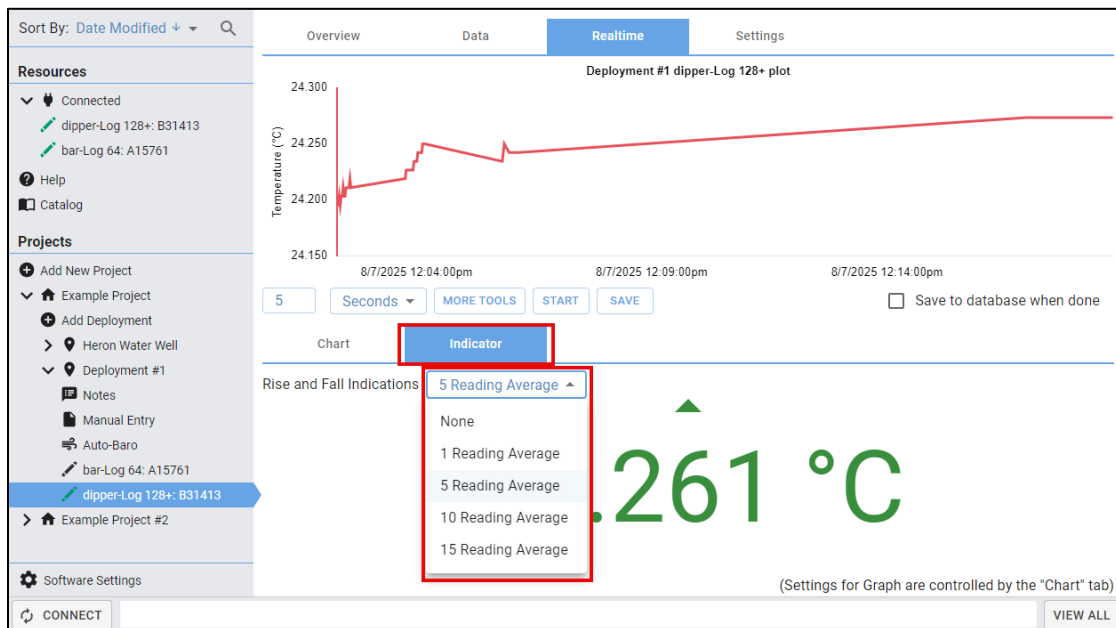
The Rise/Fall Indicator

The *Indicator* tab provides a rolling/moving average of a single parameter and indicates whether the readings are increasing or decreasing.

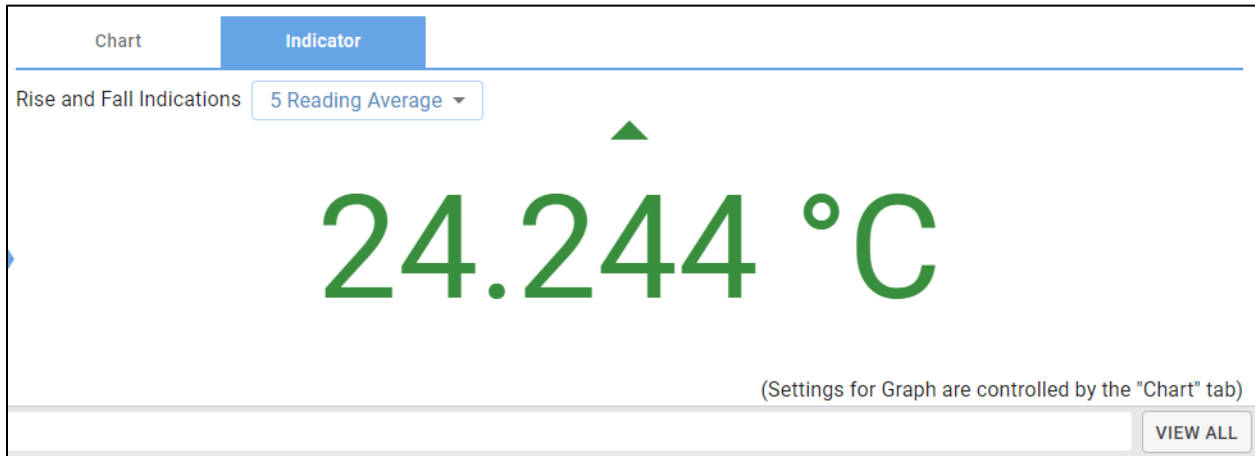
To use the *Indicator* feature, ensure you only have one parameter selected on the *Chart* tab.



Click on the *Indicator* tab. To adjust the number of readings used in the rolling average, click the dropdown field to the right of *Rise and Fall Indications* and make your selection. The rolling average will update every time a new reading is populated. If "5 Reading Average" is selected, this means that the average is calculated using the five most recent data points.

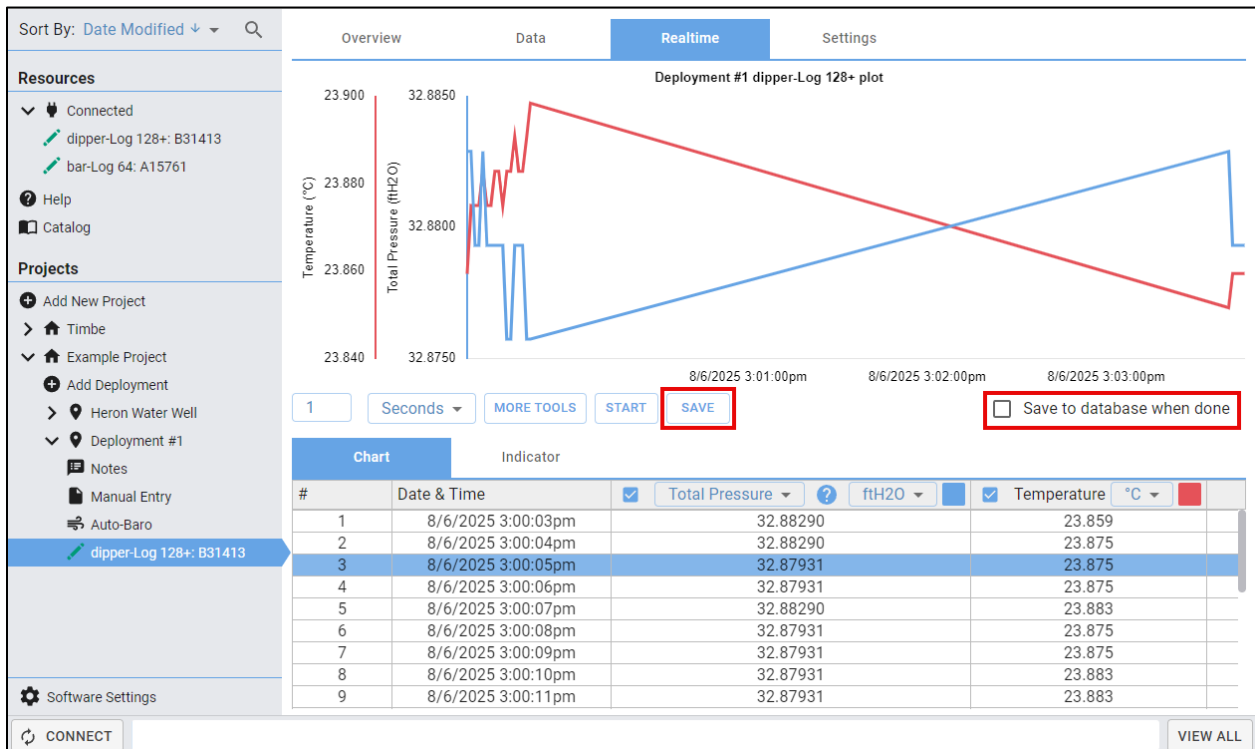


The rolling average will be displayed in Red, Green or Black text with an indication arrow. Red indicates that the reading values are falling, green indicates that they are rising and black indicates no change.



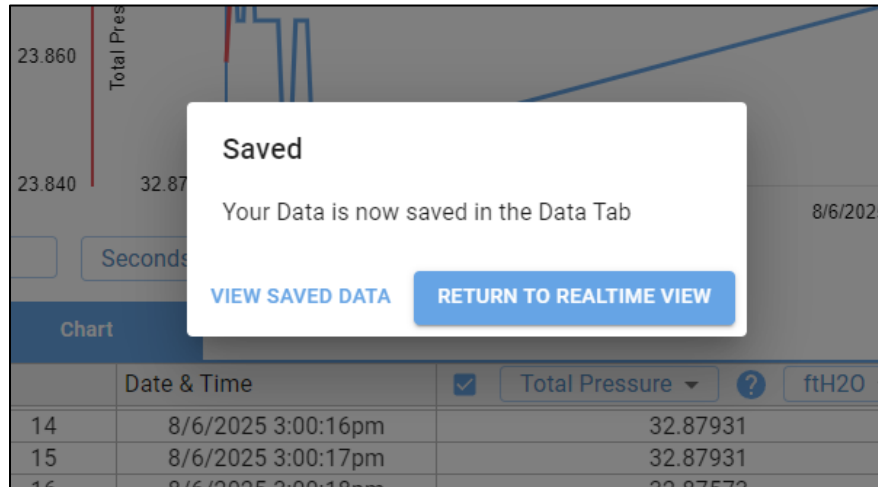
Saving Realtime Data

There are two ways to save real-time readings to the *Data* tab: the *SAVE* button or the *Save to database when done* checkbox.

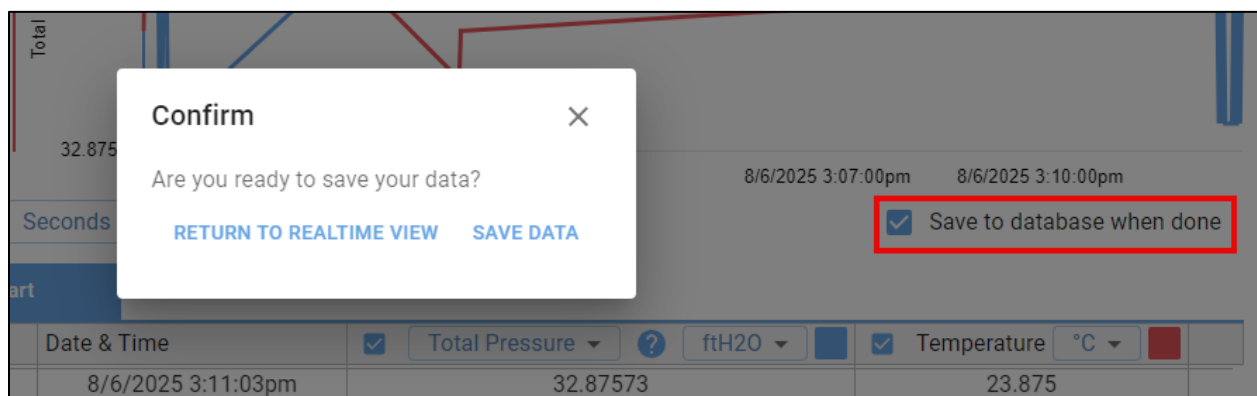


The **SAVE** button can be clicked at any time, and the real-time data will be immediately added to the *Data* tab. If there is currently data open in the *Data* tab, the real-time readings will be added to the end of the table (as they have the most recent timestamps). You will be given the option to view the saved data in the *Data* tab or return to Realtime view.

Note: if you select **VIEW SAVED DATA**, the *Realtime* tab will reset – all previous data and settings will be cleared. This will happen any time you click away from the *Realtime* tab.



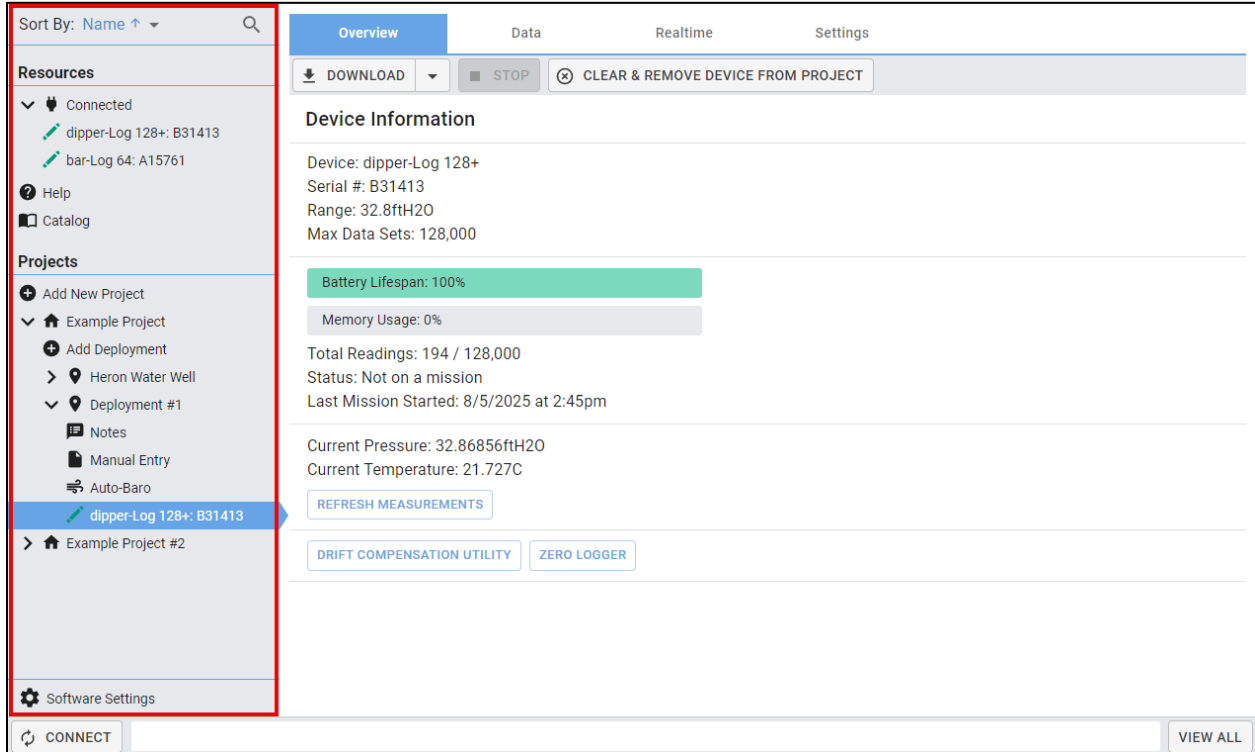
When the *Save to database when done* box is checked, if you try to exit the *Realtime* tab a window will appear giving you the option to save your data or return to Realtime view. The **SAVE DATA** button functions the same way as the **SAVE** button and your data will be added to the *Data* tab. Clicking **RETURN TO REALTIME VIEW** will keep you on the *Realtime* tab and the *Save to database when done* box will still be checked. This feature is very useful in reminding you to save your data before exiting the *Realtime* tab.



Note: Saving data from Realtime view is considered a “Download” and each save has a “Download Date”. Therefore, in the *Data* tab you can filter Realtime data based on when you saved it. For more details on how to filter by download date, see the [Filtering the Data Range](#) section.

Data Management

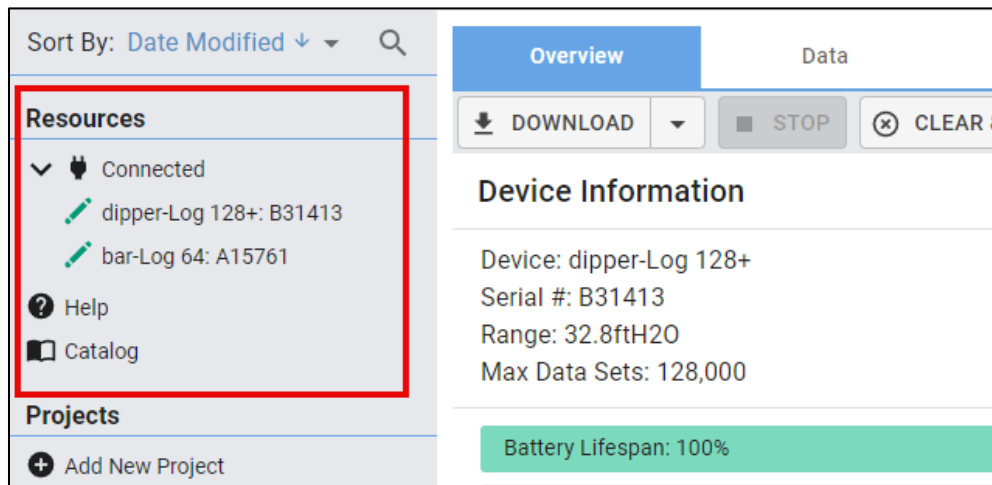
Data management is handled by a database that can be imported or exported as required. The data management panel is used to navigate the database. It has two main sections: *Resources* and *Projects*.



The screenshot shows the Data Management interface. On the left is a sidebar with a search bar and a 'Sort By: Name' dropdown. The sidebar is divided into two main sections: **Resources** and **Projects**. Under **Resources**, there is a 'Connected' section with two devices: 'dipper-Log 128+: B31413' and 'bar-Log 64: A15761'. Below this are links for 'Help' and 'Catalog'. Under **Projects**, there is an 'Add New Project' button, followed by an 'Example Project' section with 'Add Deployment', 'Heron Water Well', 'Deployment #1', 'Notes', 'Manual Entry', 'Auto-Baro', and 'dipper-Log 128+: B31413'. At the bottom of the sidebar is a 'Software Settings' gear icon. The main panel has tabs for 'Overview', 'Data', 'Realtime', and 'Settings'. The 'Overview' tab is active, showing 'Device Information' for 'dipper-Log 128+'. The information includes: Device: dipper-Log 128+, Serial #: B31413, Range: 32.8ftH2O, Max Data Sets: 128,000. Below this are two progress bars: 'Battery Lifespan: 100%' (green) and 'Memory Usage: 0%' (grey). Further down, it shows 'Total Readings: 194 / 128,000', 'Status: Not on a mission', and 'Last Mission Started: 8/5/2025 at 2:45pm'. At the bottom, it displays 'Current Pressure: 32.86856ftH2O' and 'Current Temperature: 21.727C'. There are buttons for 'REFRESH MEASUREMENTS', 'DRIFT COMPENSATION UTILITY', and 'ZERO LOGGER'. At the top of the main panel, there are buttons for 'DOWNLOAD', 'STOP', and 'CLEAR & REMOVE DEVICE FROM PROJECT'. At the bottom of the sidebar, there is a 'CONNECT' button. At the bottom right of the main panel, there is a 'VIEW ALL' button.

Resources

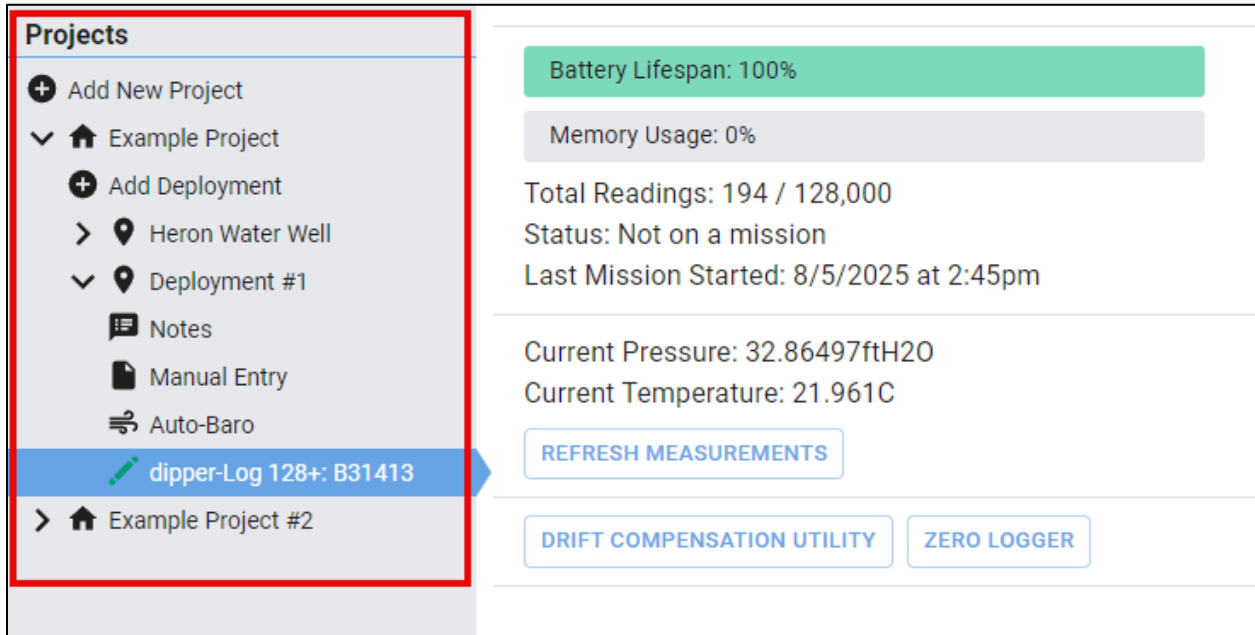
In *Resources*, all your connected devices will be displayed under *Connected*. *Help* will bring you to a page with troubleshooting tips, this manual, and a contact page if you need further assistance. *Catalog* will display the most recent version of Heron Instruments' catalog.



This screenshot is a closer view of the Data Management interface. The sidebar on the left is highlighted with a red box. It shows the 'Sort By: Date Modified' dropdown and the 'Resources' section. Under 'Resources', the 'Connected' section lists two devices: 'dipper-Log 128+: B31413' and 'bar-Log 64: A15761'. Below this are links for 'Help' and 'Catalog'. The 'Projects' section is also visible, showing an 'Add New Project' button. The main panel on the right shows the 'Overview' tab with 'Device Information' for 'dipper-Log 128+'. The information includes: Device: dipper-Log 128+, Serial #: B31413, Range: 32.8ftH2O, Max Data Sets: 128,000. Below this is a 'Battery Lifespan: 100%' progress bar (green). At the top of the main panel, there are buttons for 'DOWNLOAD', 'STOP', and 'CLEAR & REMOVE DEVICE FROM PROJECT'.

Projects Overview

The *Projects* section is where all projects and their deployments are organized. Expand and collapse projects and deployments using the dropdown arrows.



Projects

- + Add New Project
- ▼ Example Project
 - + Add Deployment
 - > Heron Water Well
 - ▼ Deployment #1
 - Notes
 - Manual Entry
 - Auto-Baro
 - dipper-Log 128+: B31413**
 - > Example Project #2

Battery Lifespan: 100%

Memory Usage: 0%

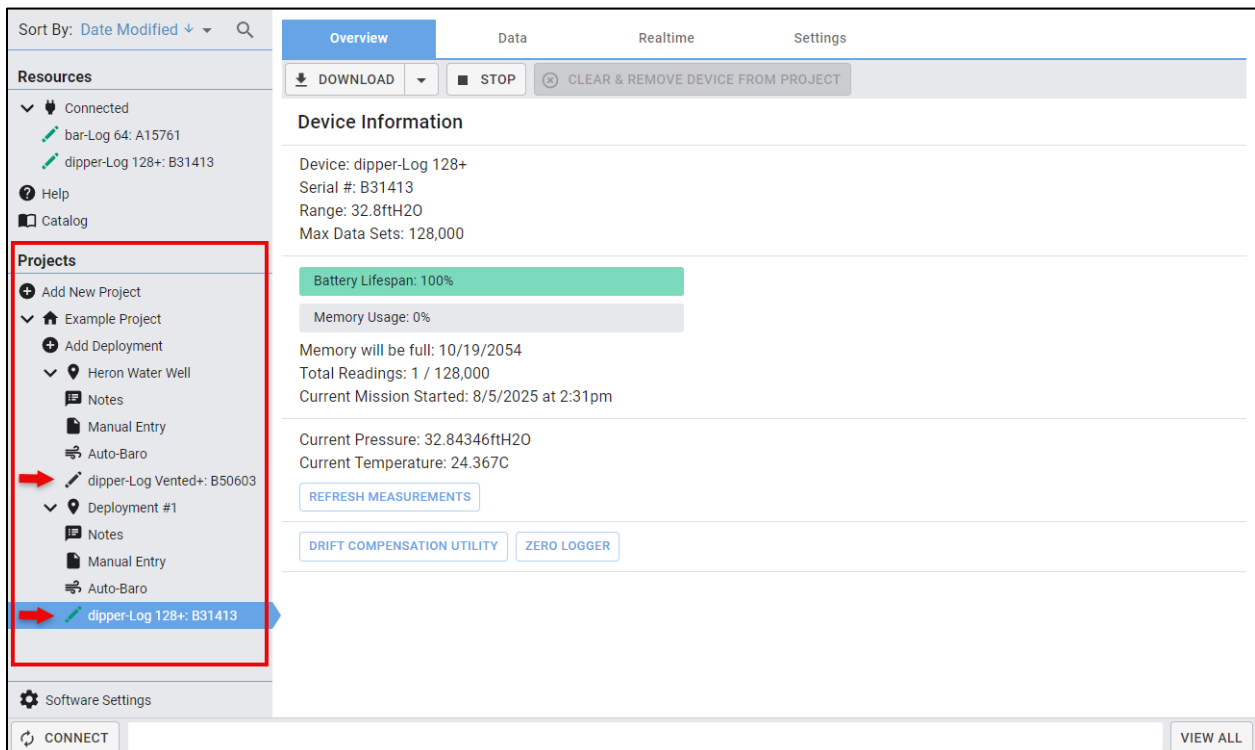
Total Readings: 194 / 128,000
Status: Not on a mission
Last Mission Started: 8/5/2025 at 2:45pm

Current Pressure: 32.86497ftH2O
Current Temperature: 21.961C

REFRESH MEASUREMENTS

DRIFT COMPENSATION UTILITY ZERO LOGGER

Under deployments, the devices used will be listed. Connected devices will have a green logger icon, while disconnected devices will have a black logger icon.



Sort By: Date Modified

Resources

- Connected
 - bar-Log 64: A15761
 - dipper-Log 128+: B31413
- Help
- Catalog

Projects

- + Add New Project
- ▼ Example Project
 - + Add Deployment
 - ▼ Heron Water Well
 - Notes
 - Manual Entry
 - Auto-Baro
 - dipper-Log Vented+: B50603
 - ▼ Deployment #1
 - Notes
 - Manual Entry
 - Auto-Baro
 - dipper-Log 128+: B31413**

Software Settings

CONNECT

Overview Data Realtime Settings

DOWNLOAD STOP CLEAR & REMOVE DEVICE FROM PROJECT

Device Information

Device: dipper-Log 128+
Serial #: B31413
Range: 32.8ftH2O
Max Data Sets: 128,000

Battery Lifespan: 100%

Memory Usage: 0%

Memory will be full: 10/19/2054
Total Readings: 1 / 128,000
Current Mission Started: 8/5/2025 at 2:31pm

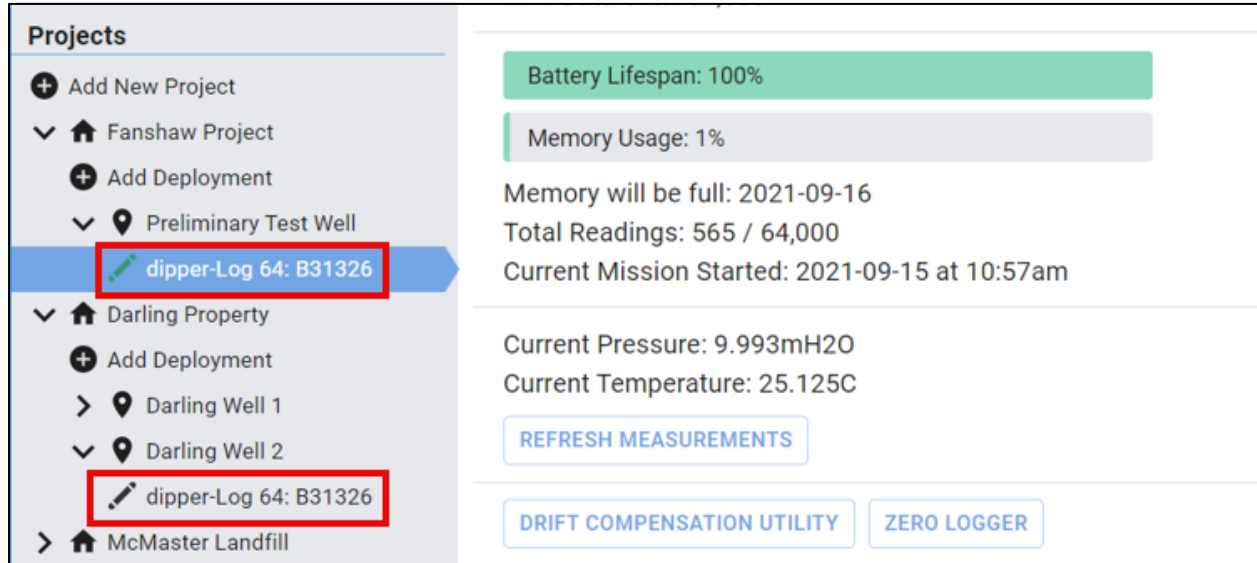
Current Pressure: 32.84346ftH2O
Current Temperature: 24.367C

REFRESH MEASUREMENTS

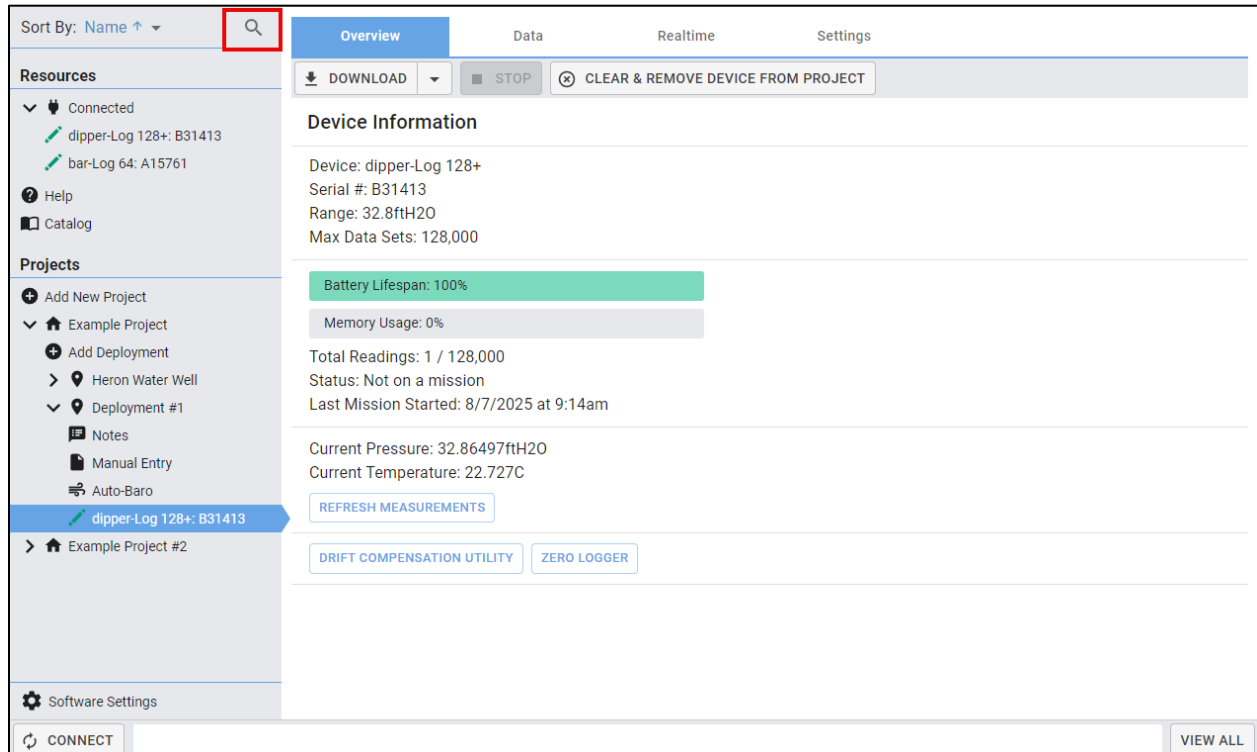
DRIFT COMPENSATION UTILITY ZERO LOGGER

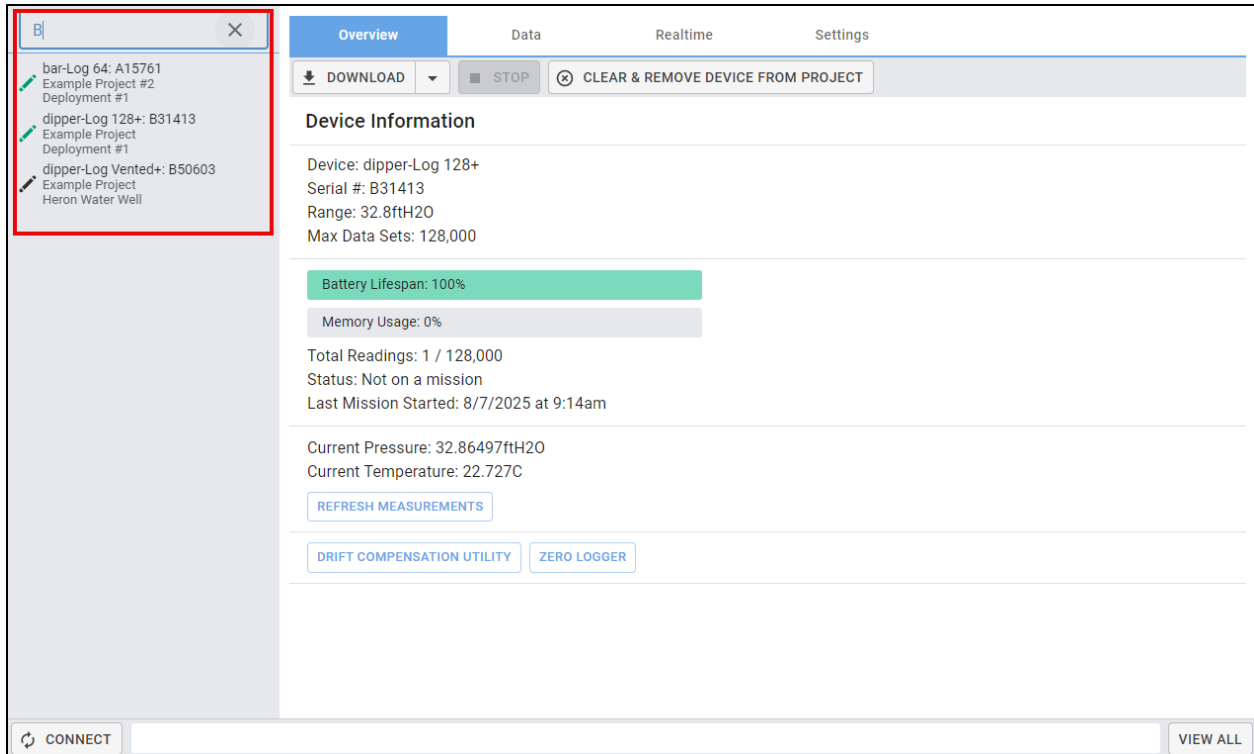
VIEW ALL

If a logger has been used in multiple projects, it may appear multiple times in the *Projects* section. When connected, the current project the device is assigned to will have the green logger icon, while older projects will have the black logger icon. This means that even though the device is connected, it is no longer assigned to that project.



Search for projects, deployments and devices using the search feature at the top of the Data Management Panel.





Overview | Data | Realtime | Settings

DOWNLOAD | STOP | CLEAR & REMOVE DEVICE FROM PROJECT

Device Information

Device: dipper-Log 128+
 Serial #: B31413
 Range: 32.8ftH2O
 Max Data Sets: 128,000

Battery Lifespan: 100%
 Memory Usage: 0%

Total Readings: 1 / 128,000
 Status: Not on a mission
 Last Mission Started: 8/7/2025 at 9:14am

Current Pressure: 32.86497ftH2O
 Current Temperature: 22.727C

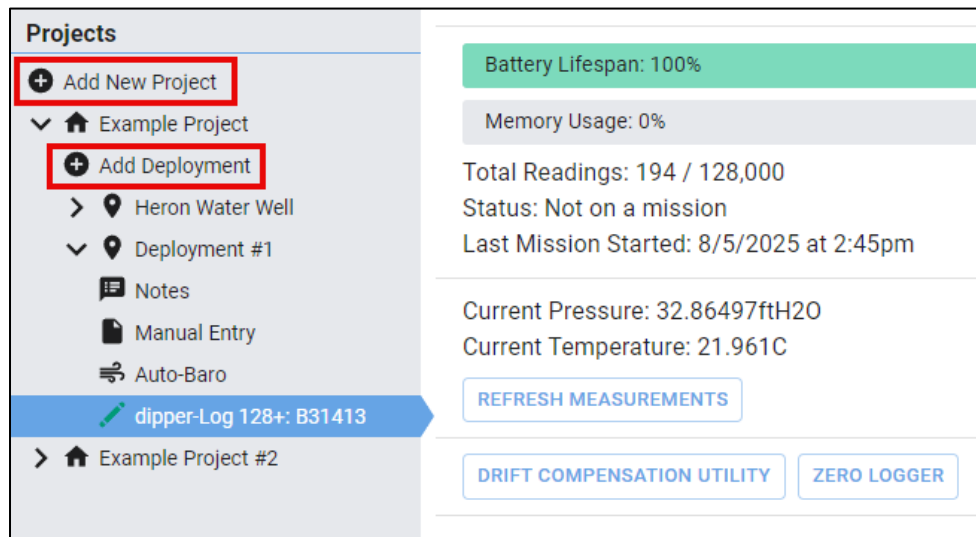
REFRESH MEASUREMENTS

DRIFT COMPENSATION UTILITY | ZERO LOGGER

CONNECT | VIEW ALL

Organizing the Projects

On the Data Management panel use the *Add New Project* button to create new projects. Within the projects, use the *Add Deployment* button to create new deployments. Note: Devices will not yet appear under newly created sections until they are assigned in device setup.



Projects

+ Add New Project

Example Project

+ Add Deployment

> Heron Water Well

> Deployment #1

Notes

Manual Entry

Auto-Baro

dipper-Log 128+: B31413

> Example Project #2

Battery Lifespan: 100%
 Memory Usage: 0%

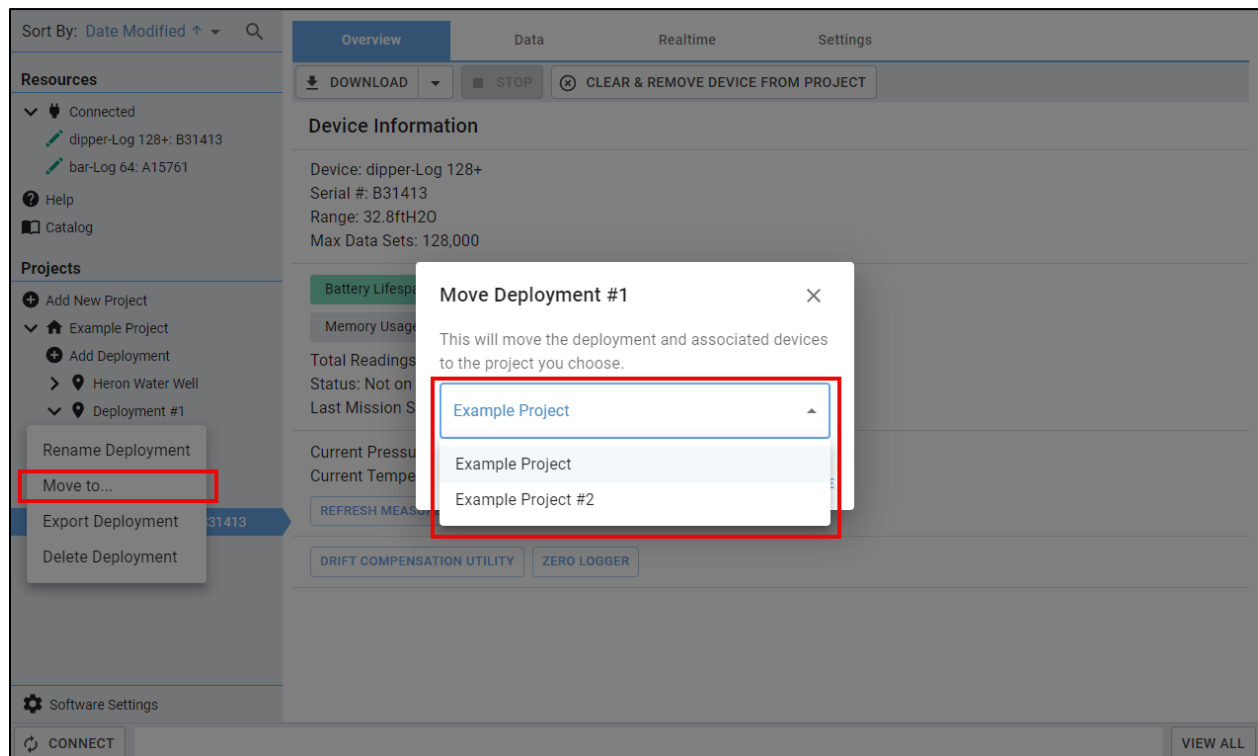
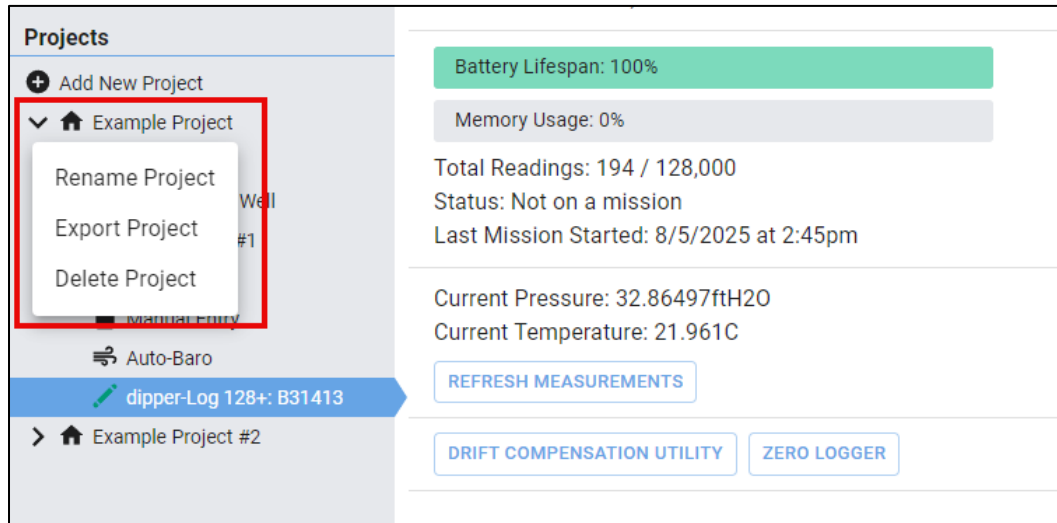
Total Readings: 194 / 128,000
 Status: Not on a mission
 Last Mission Started: 8/5/2025 at 2:45pm

Current Pressure: 32.86497ftH2O
 Current Temperature: 21.961C

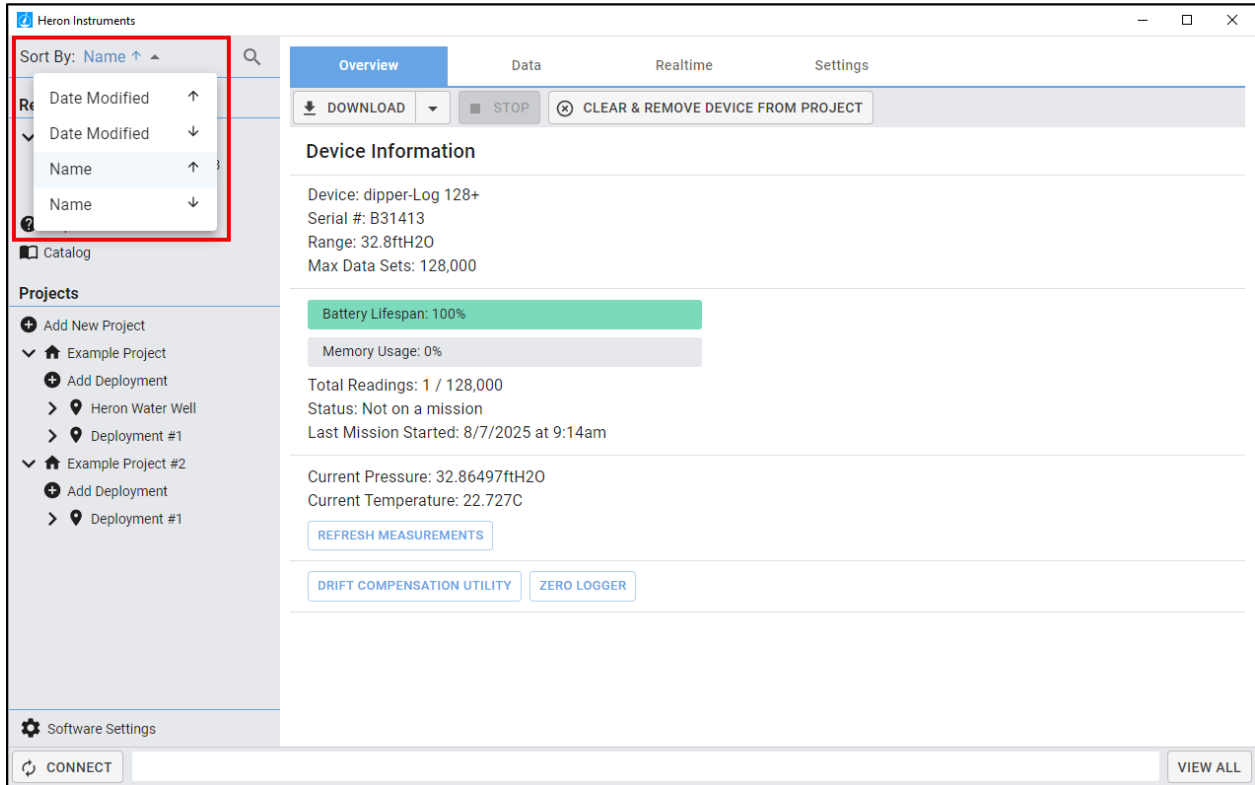
REFRESH MEASUREMENTS

DRIFT COMPENSATION UTILITY | ZERO LOGGER

Right-click on any project or deployment to rename, export or delete it. More information regarding importing and exporting can be found in the [Importing and Exporting the Database](#) section. For deployments, when you right-click there is also a Move to option. This allows you to move a deployment to a different project by selecting an existing project from the dropdown list.



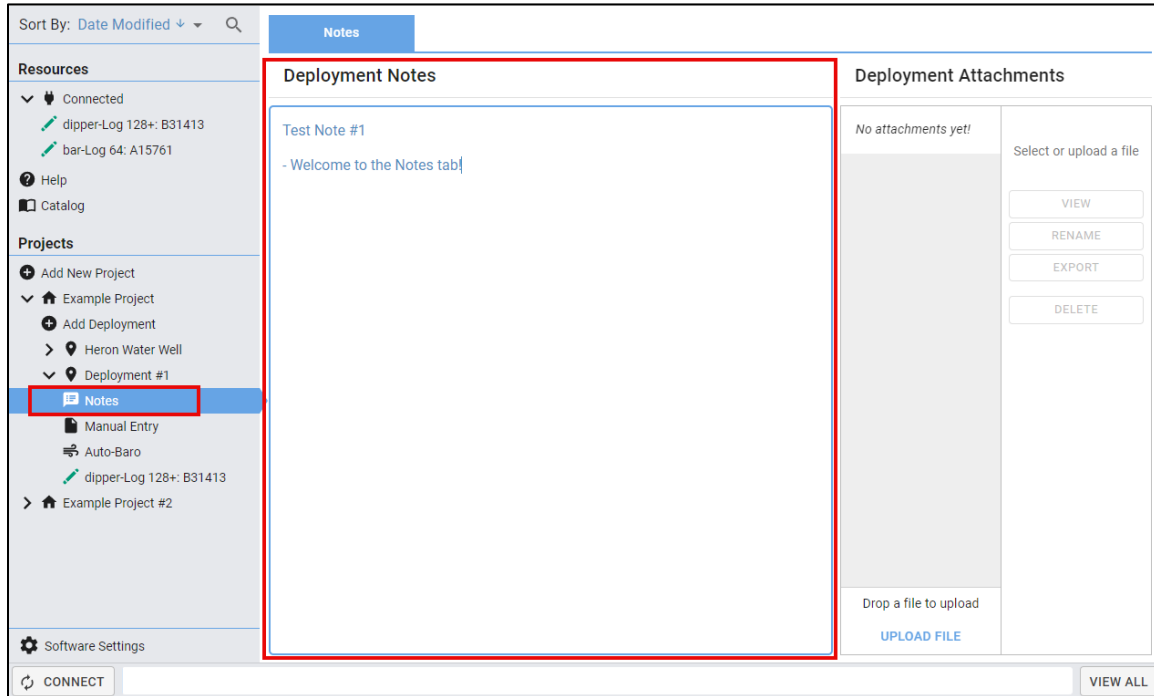
Sort your projects in the data management panel by Name or by Date Modified using the dropdown menu in the top left-hand corner of the screen. Note that this does not sort the order of deployments within the project – they remain in the order that they were added.



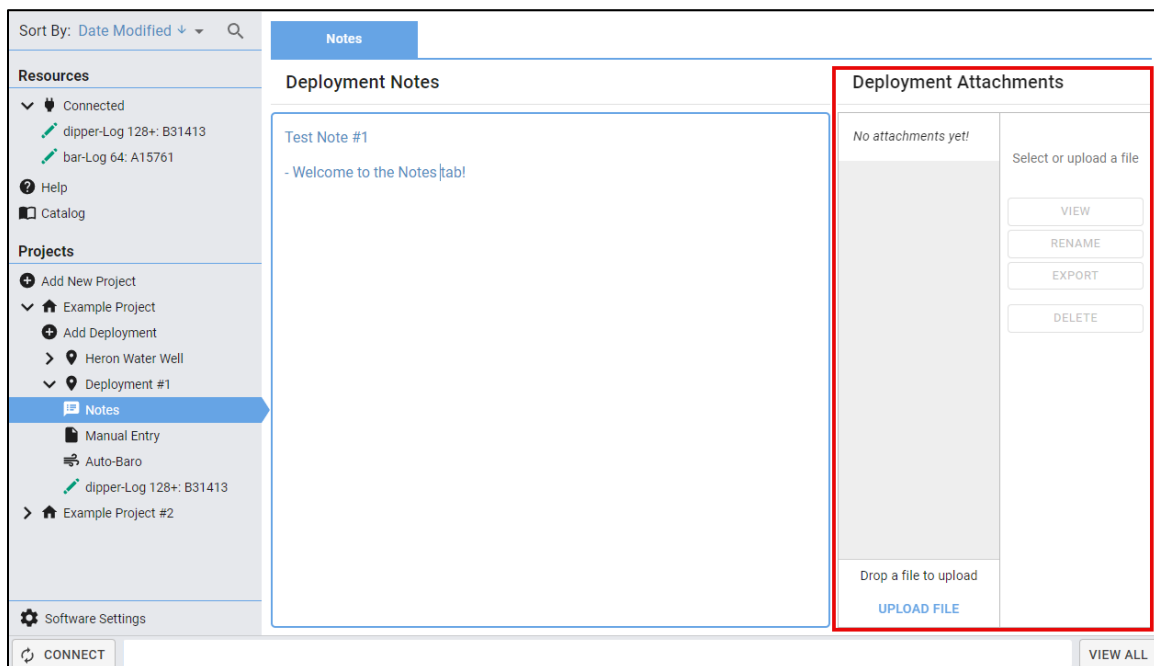
The screenshot displays the Heron Instruments software interface. On the left sidebar, the 'Sort By' dropdown menu is open, showing options: 'Date Modified' (up arrow), 'Date Modified' (down arrow), 'Name' (up arrow), and 'Name' (down arrow). The 'Name' option is currently selected. The main panel shows the 'Overview' tab with device information for 'dipper-Log 128+'. The device details include: Serial #: B31413, Range: 32.8ftH2O, Max Data Sets: 128,000, Battery Lifespan: 100%, and Memory Usage: 0%. It also shows mission status: 'Not on a mission' and 'Last Mission Started: 8/7/2025 at 9:14am'. Current readings for pressure (32.86497ftH2O) and temperature (22.727C) are displayed. At the bottom, there are buttons for 'REFRESH MEASUREMENTS', 'DRIFT COMPENSATION UTILITY', and 'ZERO LOGGER'. The bottom status bar includes a 'CONNECT' button and a 'VIEW ALL' link.

Notes Tab

Within each deployment there is a *Notes* bar. After clicking on *Notes*, you will be brought to the Notes tab. It has two sections: *Deployment Notes* and *Deployment Attachments*. The main space under *Deployment Notes* is a text box to jot down your notes.

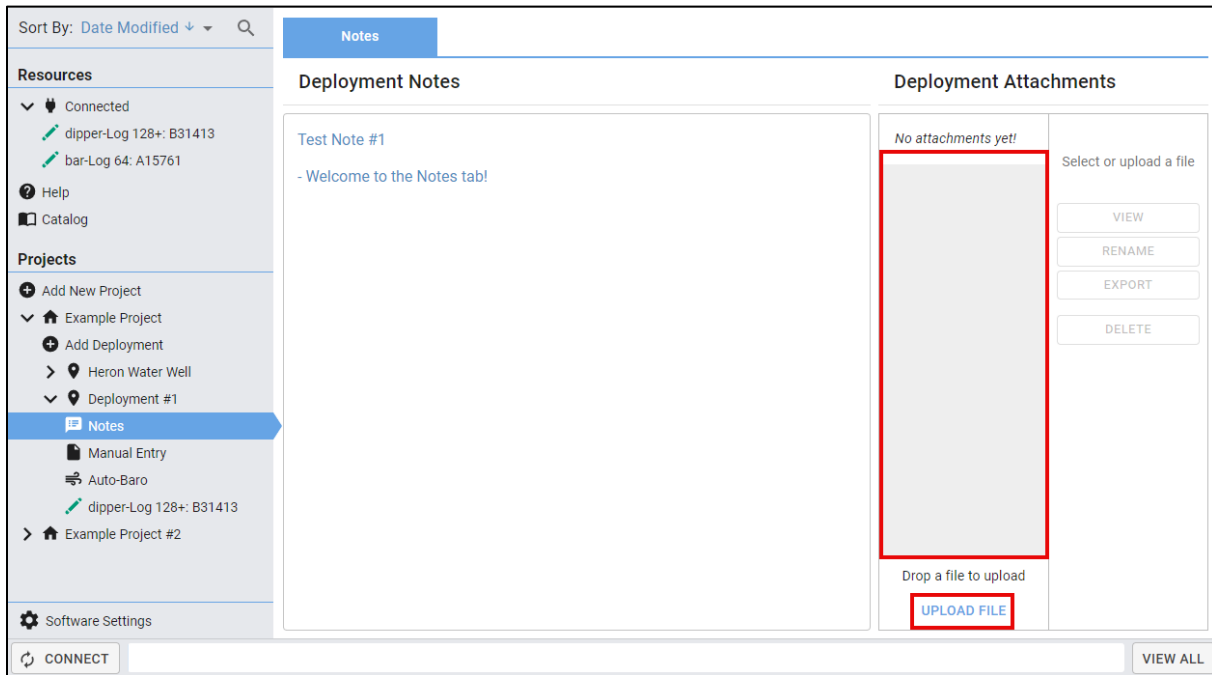


The *Deployment Attachments* section allows you to upload files and store them within a deployment for easy access.



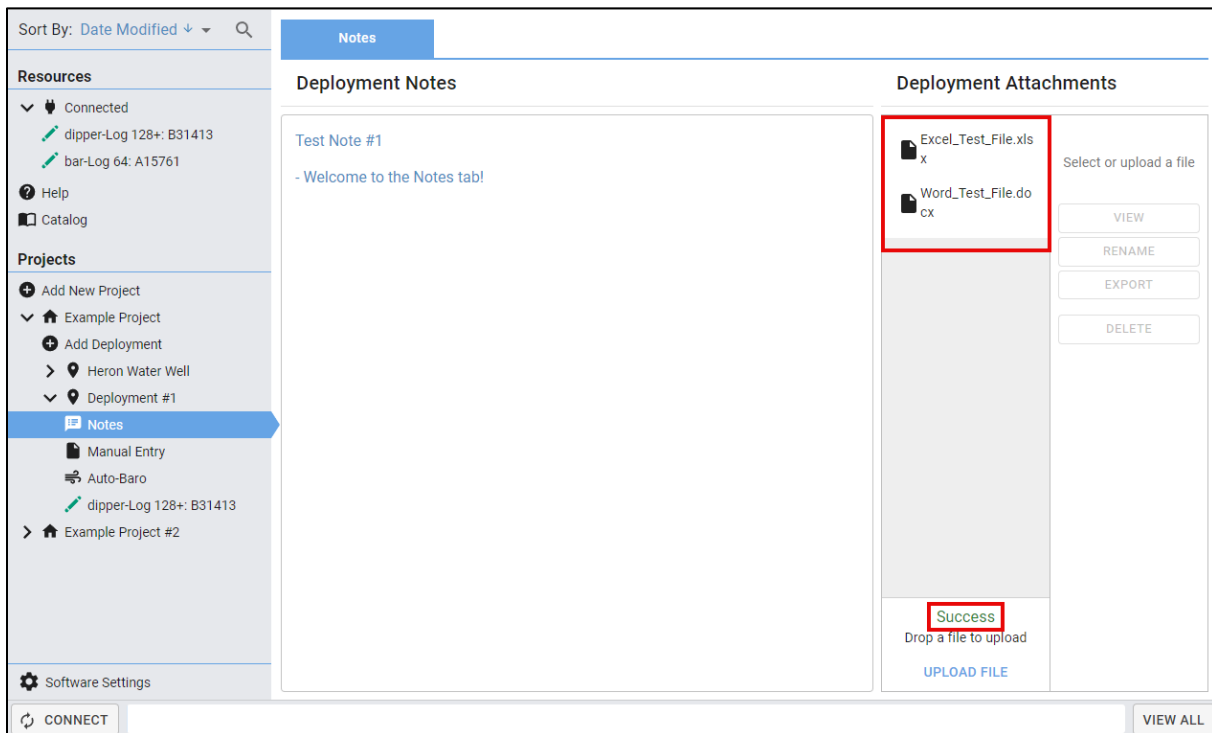
Uploading a File

To upload a file, click the **UPLOAD FILE** button and select the file from your computer or drop a file into the gray region. Note: You can select/drop multiple files at once.



The screenshot shows the Heron Instruments web interface. On the left is a sidebar with 'Resources' (Connected devices: dipper-Log 128+: B31413, bar-Log 64: A15761) and 'Projects' (Example Project, Deployment #1, Notes, Manual Entry, Auto-Baro, dipper-Log 128+: B31413, Example Project #2). The main area is titled 'Notes' and contains 'Deployment Notes' (Test Note #1, - Welcome to the Notes tab!) and 'Deployment Attachments'. The attachments section is currently empty, showing 'No attachments yet!' and a large gray drop zone. A red box highlights the 'UPLOAD FILE' button at the bottom of the attachments section.

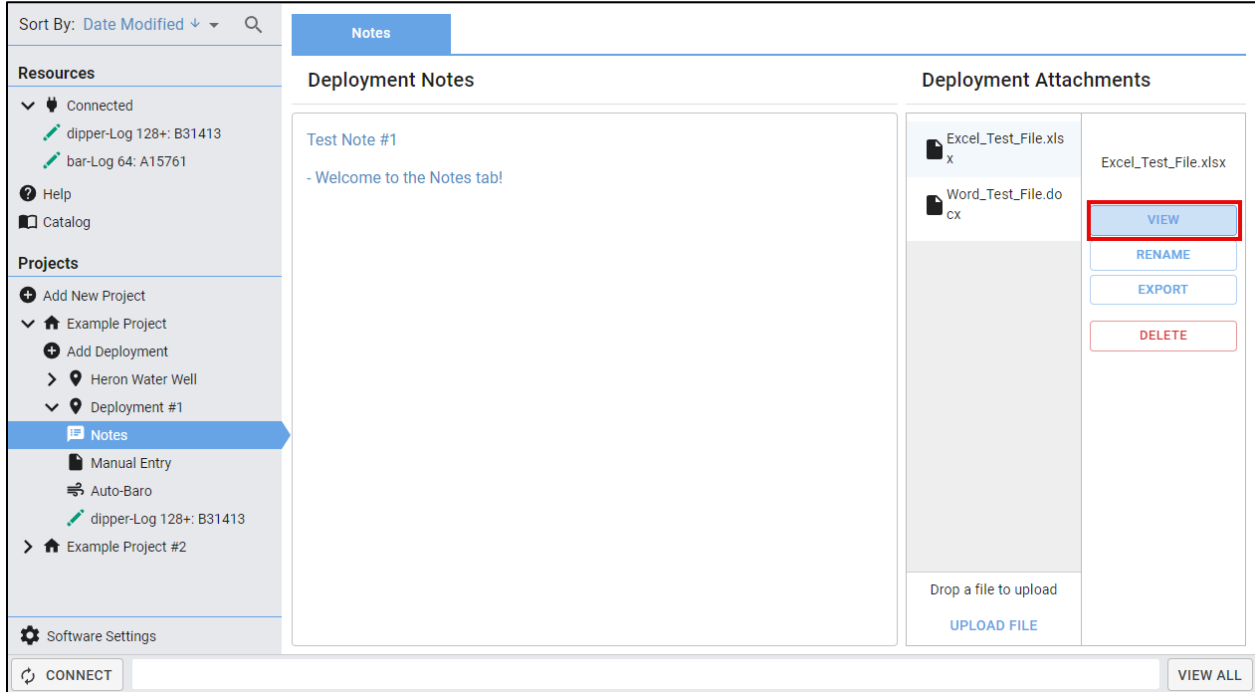
Once the file has been uploaded, you will receive a “Success” message, and your file will be listed in the gray region.



The screenshot shows the same Heron Instruments web interface, but now the 'Deployment Attachments' section contains two files: 'Excel_Test_File.xls' and 'Word_Test_File.docx'. A red box highlights the 'Success' message at the bottom of the attachments section, indicating that the files were uploaded successfully. The 'UPLOAD FILE' button is still visible at the bottom.

Viewing a File

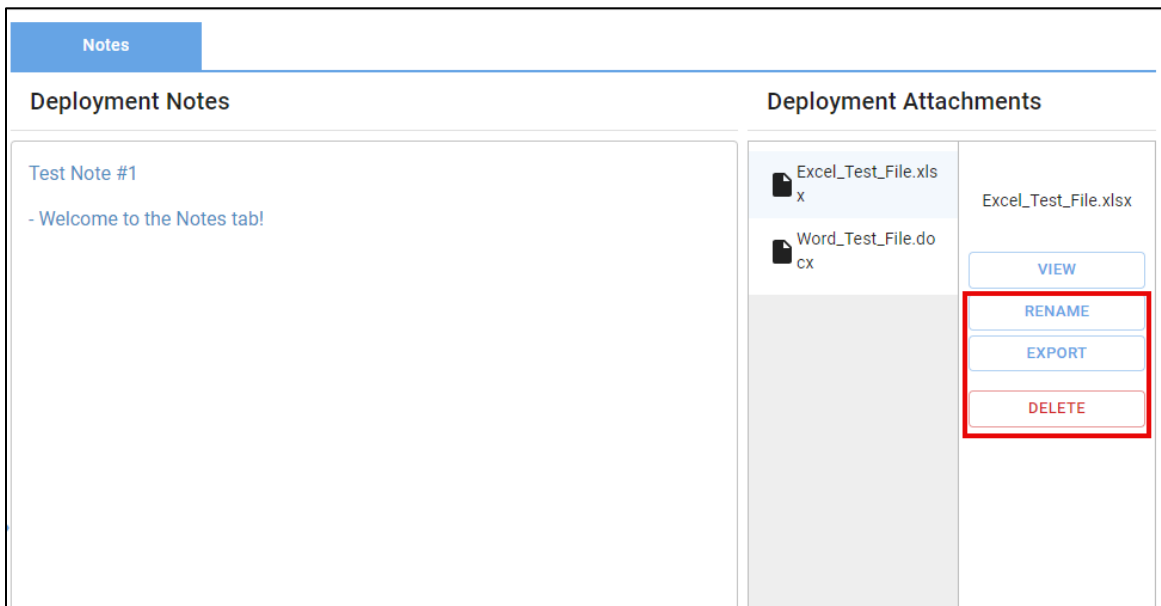
Select the file and click on the VIEW button. This will export the file and open it using the appropriate app on your computer. Note: If you edit the file, the changes will not be stored in the Heron Instruments software, and the file will need to be reuploaded.



The screenshot shows the Heron Instruments software interface. On the left is a sidebar with a search bar and a list of resources and projects. The main area is divided into two panels: 'Deployment Notes' and 'Deployment Attachments'. The 'Deployment Notes' panel shows a 'Test Note #1' with the text '- Welcome to the Notes tab!'. The 'Deployment Attachments' panel shows two files: 'Excel_Test_File.xls' and 'Word_Test_File.docx'. The 'VIEW' button for the Excel file is highlighted with a red box. Below the files is a 'Drop a file to upload' section with an 'UPLOAD FILE' button. At the bottom right is a 'VIEW ALL' button.

Renaming, Exporting and Deleting a File

Rename, export or delete a file by selecting it and clicking the applicable button.

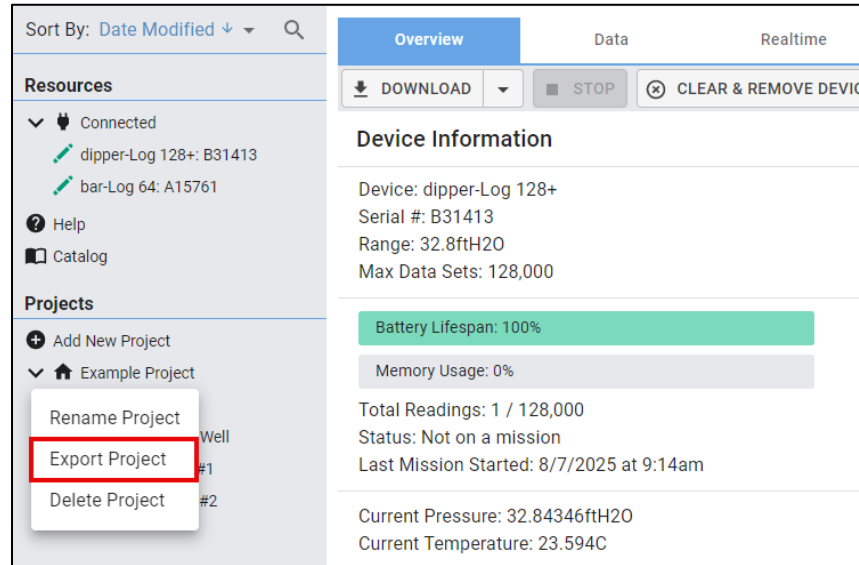


This screenshot is a closer view of the 'Deployment Attachments' section from the previous image. It shows the same two files: 'Excel_Test_File.xls' and 'Word_Test_File.docx'. The buttons 'VIEW', 'RENAME', 'EXPORT', and 'DELETE' for the Excel file are visible. The 'RENAME', 'EXPORT', and 'DELETE' buttons are highlighted with a red box.

Importing and Exporting the Database

Exporting Projects and Deployments

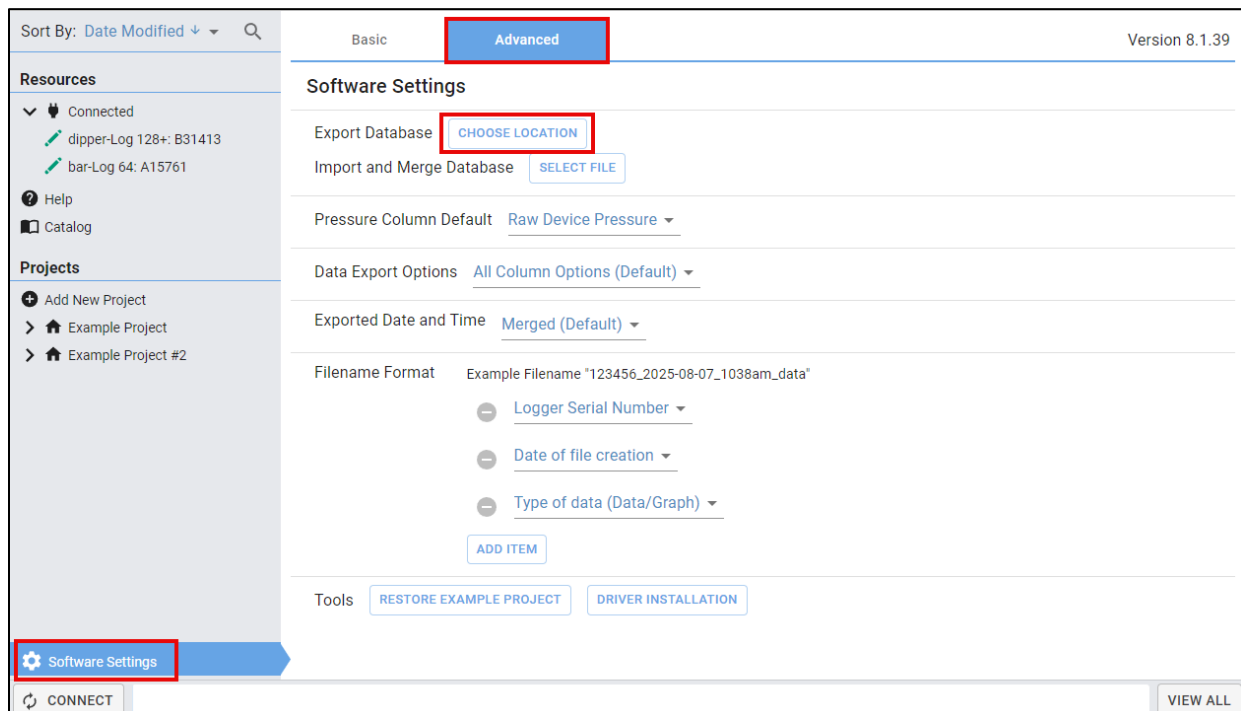
In the data management panel, right-click on the project/deployment and click *Export Project/Deployment*. Name the file and save it to your computer.



The screenshot shows the Heron Instruments data management panel. On the left, under the 'Projects' section, a right-click context menu is open for 'Example Project'. The 'Export Project' option is highlighted with a red box. The main panel displays 'Device Information' for 'dipper-Log 128+' with details like Serial #, Range, and Max Data Sets. It also shows 'Battery Lifespan: 100%' and 'Memory Usage: 0%'.

Exporting the Entire Database

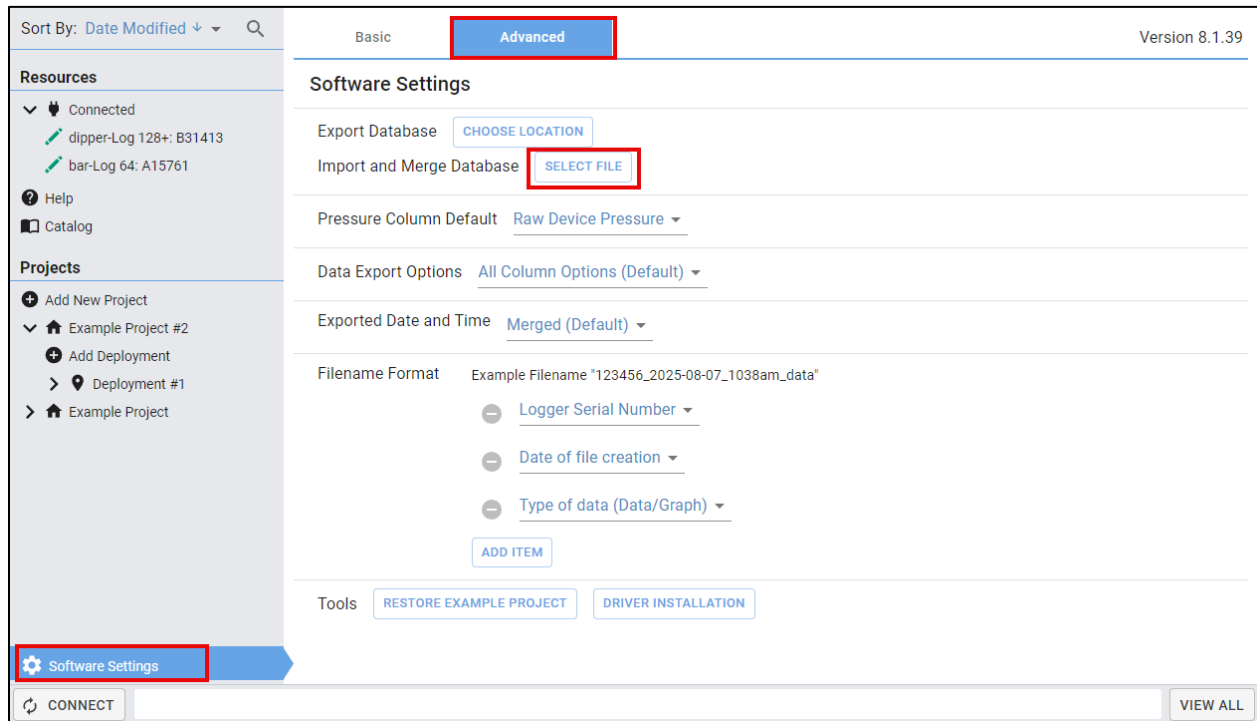
Click on *Software Settings* in the bottom left-hand corner of the screen. Click on the *Advanced* tab and beside *Export Database* click on the *CHOOSE LOCATION* button. Name the file and save it to your computer.



The screenshot shows the 'Software Settings' window in the Heron Instruments application. The 'Advanced' tab is selected and highlighted with a red box. In the 'Export Database' section, the 'CHOOSE LOCATION' button is highlighted with a red box. The 'Software Settings' label in the bottom left corner is also highlighted with a red box. The interface shows various settings for data export, including 'Import and Merge Database', 'Pressure Column Default', 'Data Export Options', and 'Exported Date and Time'.

Importing Heron Database Files

In *Software Settings*, go to the *Advanced* tab. Beside *Import and Merge Database*, click on the *SELECT FILE* button. Choose your Heron Database file and it will be uploaded to the software. Once completed you will receive an “Import Complete” message, and your imported project/deployment will be visible in the data management panel.



Sort By: Date Modified ▾ 🔍

Resources

- Connected
 - dipper-Log 128+: B31413
 - bar-Log 64: A15761
- Help
- Catalog

Projects

- Add New Project
- Example Project #2
 - Add Deployment
 - Deployment #1
- Example Project

Software Settings

Basic **Advanced**

Version 8.1.39

Software Settings

Export Database [CHOOSE LOCATION](#)

Import and Merge Database [SELECT FILE](#)

Pressure Column Default [Raw Device Pressure ▾](#)

Data Export Options [All Column Options \(Default\) ▾](#)

Exported Date and Time [Merged \(Default\) ▾](#)

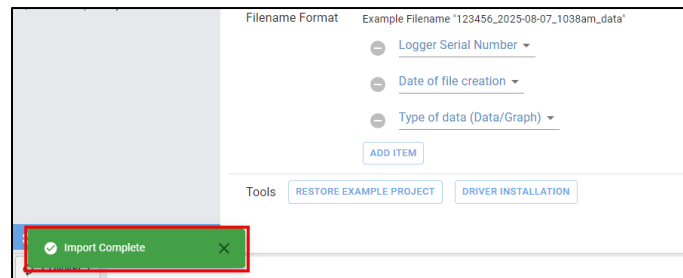
Filename Format Example Filename "123456_2025-08-07_1038am_data"

- Logger Serial Number ▾
- Date of file creation ▾
- Type of data (Data/Graph) ▾

[ADD ITEM](#)

Tools [RESTORE EXAMPLE PROJECT](#) [DRIVER INSTALLATION](#)

[CONNECT](#) [VIEW ALL](#)



Filename Format Example Filename "123456_2025-08-07_1038am_data"

- Logger Serial Number ▾
- Date of file creation ▾
- Type of data (Data/Graph) ▾

[ADD ITEM](#)

Tools [RESTORE EXAMPLE PROJECT](#) [DRIVER INSTALLATION](#)

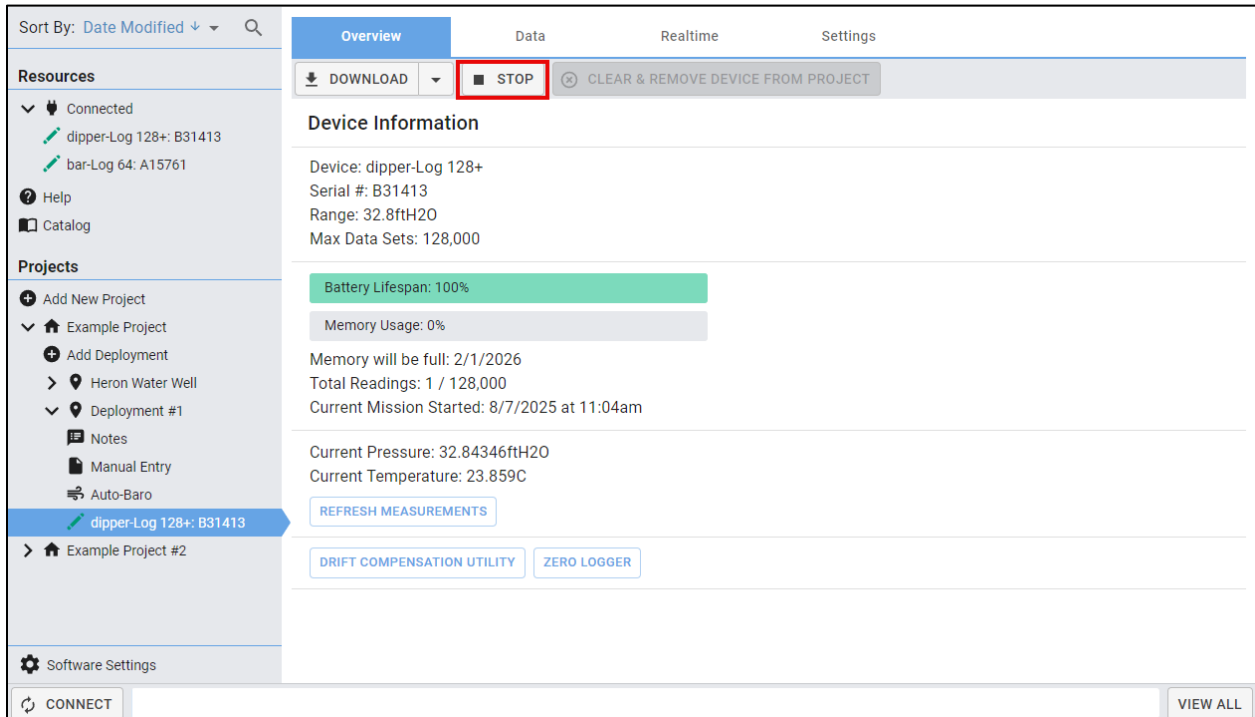
[Import Complete](#)

Stopping a Mission and Clearing a Logger

Between missions, it is important to stop and clear the logger to conserve battery especially if storing for extended periods of time. This is also required if you would like to assign a logger to a different project.

Stopping a Mission

On the *Overview* tab of the device, click the *STOP* button. A confirmation window will appear, click *STOP LOGGER*.

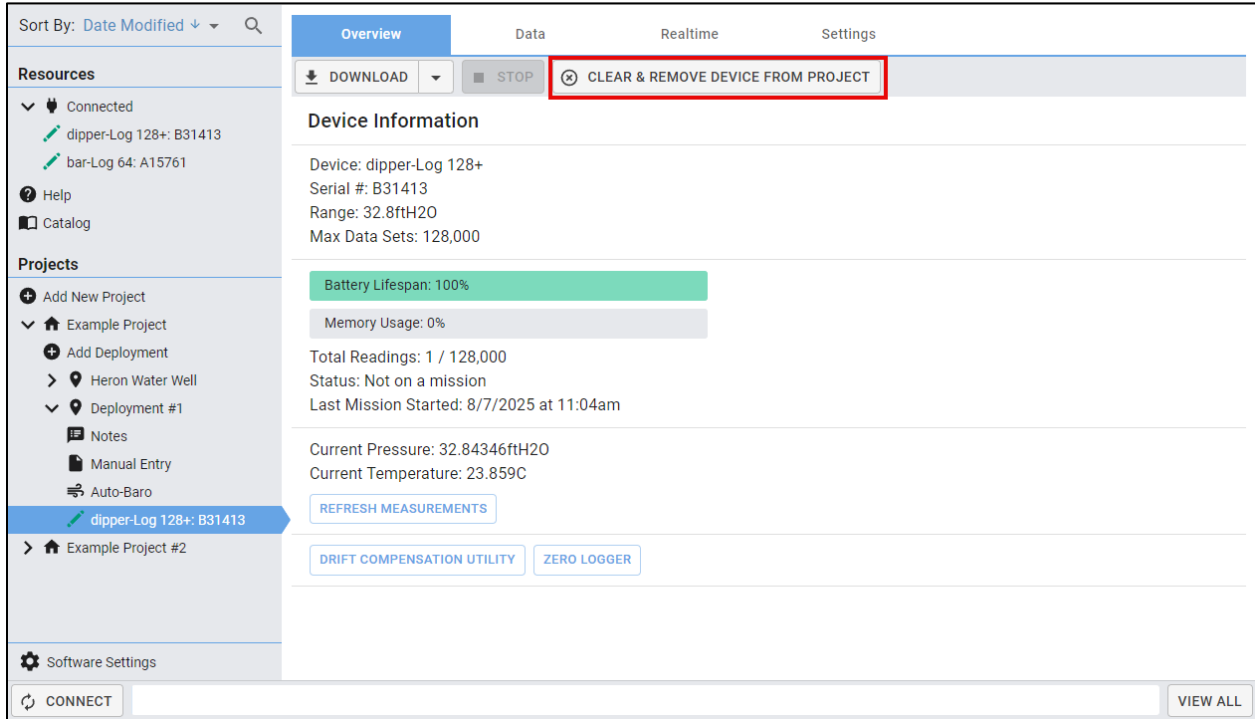


The screenshot displays the Heron Instruments web interface. On the left, a sidebar contains 'Resources' (Connected devices: dipper-Log 128+: B31413, bar-Log 64: A15761) and 'Projects' (Add New Project, Example Project, Add Deployment, Heron Water Well, Deployment #1, Notes, Manual Entry, Auto-Baro, dipper-Log 128+: B31413, Example Project #2). The main area has tabs for 'Overview', 'Data', 'Realtime', and 'Settings'. Under 'Overview', there are buttons for 'DOWNLOAD', 'STOP' (highlighted with a red box), and 'CLEAR & REMOVE DEVICE FROM PROJECT'. Below these is 'Device Information' showing: Device: dipper-Log 128+, Serial #: B31413, Range: 32.8ftH2O, Max Data Sets: 128,000. A green bar indicates 'Battery Lifespan: 100%' and a grey bar shows 'Memory Usage: 0%'. Text indicates 'Memory will be full: 2/1/2026', 'Total Readings: 1 / 128,000', and 'Current Mission Started: 8/7/2025 at 11:04am'. Further down, it shows 'Current Pressure: 32.84346ftH2O' and 'Current Temperature: 23.859C'. At the bottom of the main area are buttons for 'REFRESH MEASUREMENTS', 'DRIFT COMPENSATION UTILITY', and 'ZERO LOGGER'. The bottom of the interface has a 'CONNECT' button on the left and a 'VIEW ALL' button on the right.

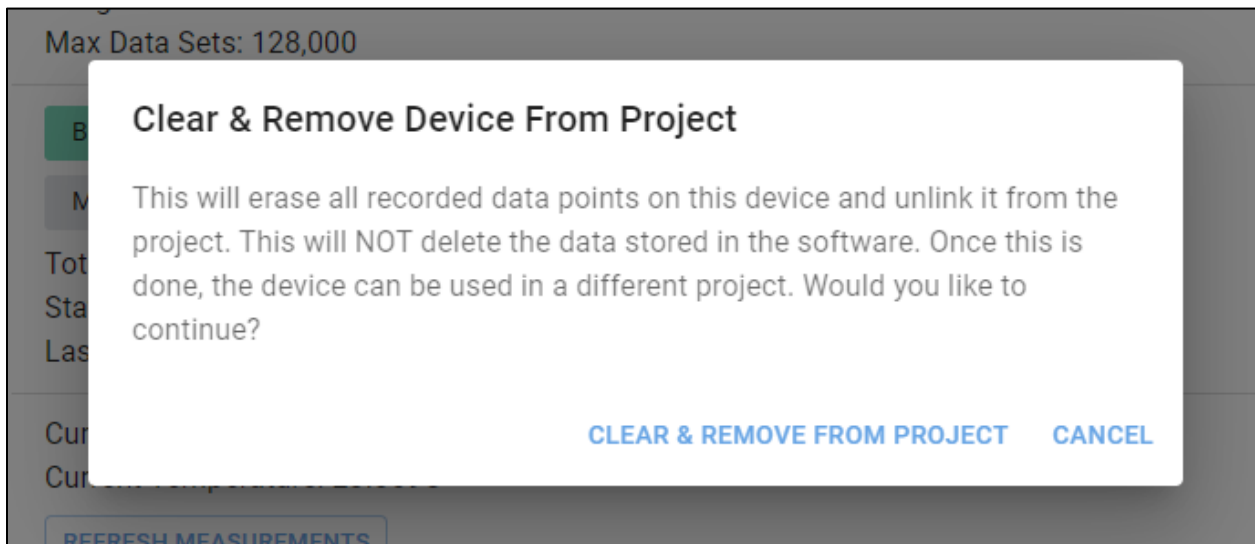
Clearing a Logger

Before clearing a logger, ensure you have downloaded the data to the software. Data stored on the logger cannot be recovered after clearing.

Click the **CLEAR & REMOVE DEVICE FROM PROJECT** button. A confirmation window will pop up. Click on **CLEAR & REMOVE FROM PROJECT**.



The screenshot shows the Heron Instruments software interface. On the left, there is a sidebar with 'Resources' and 'Projects' sections. The 'Resources' section lists 'Connected' devices: 'dipper-Log 128+: B31413' and 'bar-Log 64: A15761'. The 'Projects' section shows 'Add New Project', 'Example Project', and 'Add Deployment'. The 'Example Project' is expanded, showing 'Heron Water Well' and 'Deployment #1'. The 'dipper-Log 128+: B31413' device is selected. The main area displays 'Device Information' for 'dipper-Log 128+'. It includes fields for 'Device: dipper-Log 128+', 'Serial #: B31413', 'Range: 32.8ftH2O', and 'Max Data Sets: 128,000'. Below this, there are status bars for 'Battery Lifespan: 100%' and 'Memory Usage: 0%'. Further down, it shows 'Total Readings: 1 / 128,000', 'Status: Not on a mission', and 'Last Mission Started: 8/7/2025 at 11:04am'. At the bottom, there are buttons for 'REFRESH MEASUREMENTS', 'DRIFT COMPENSATION UTILITY', and 'ZERO LOGGER'. The 'CLEAR & REMOVE DEVICE FROM PROJECT' button is highlighted with a red box.



The screenshot shows a confirmation dialog box titled 'Clear & Remove Device From Project'. The text inside the dialog reads: 'This will erase all recorded data points on this device and unlink it from the project. This will NOT delete the data stored in the software. Once this is done, the device can be used in a different project. Would you like to continue?'. At the bottom of the dialog, there are two buttons: 'CLEAR & REMOVE FROM PROJECT' and 'CANCEL'.

Auto-Baro

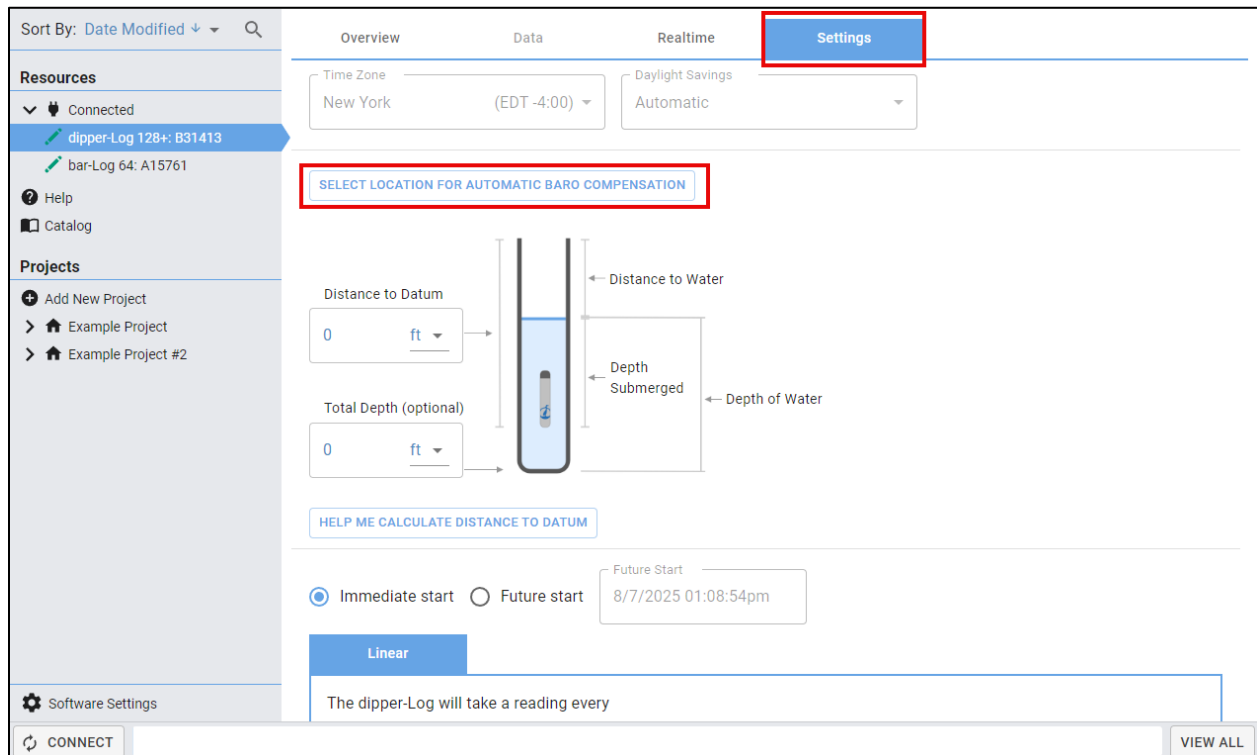
Auto-Baro is a free, internet-connected service that automatically collects barometric data from nearby weather stations. It uses barometric pressure datasets that best match your chosen location to adjust your dipperLog readings for barometric pressure. When reliable data is available, Auto-Baro can improve the accuracy of your measurements without the need for extra equipment or added effort. The Auto-Baro data updates automatically whenever you're connected to the internet.

Selecting a Location

The Auto-Baro feature is specific to the deployment (i.e. you can have different Auto-Baro locations for different deployments). However, all devices in one deployment will have the same Auto-Baro location. If one device's location is changed, the location of all other devices in that deployment will be updated.

Setting the Location When Starting a New Mission

Select your device and go to the *Settings* tab. Click on the **SELECT LOCATION FOR AUTOMATIC BARO COMPENSATION** button. Select one of your recent locations or click on **NEW LOCATION**.



Sort By: Date Modified ▾ 🔍

Resources

- Connected
- dipper-Log 128+: B31413
- bar-Log 64: A15761
- Help
- Catalog

Projects

- Add New Project
- Example Project
- Example Project #2

Settings

Time Zone: New York (EDT -4:00) ▾

Daylight Savings: Automatic ▾

SELECT LOCATION FOR AUTOMATIC BARO COMPENSATION

Distance to Datum: 0 ft ▾

Total Depth (optional): 0 ft ▾

Distance to Water

Depth Submerged

Depth of Water

HELP ME CALCULATE DISTANCE TO DATUM

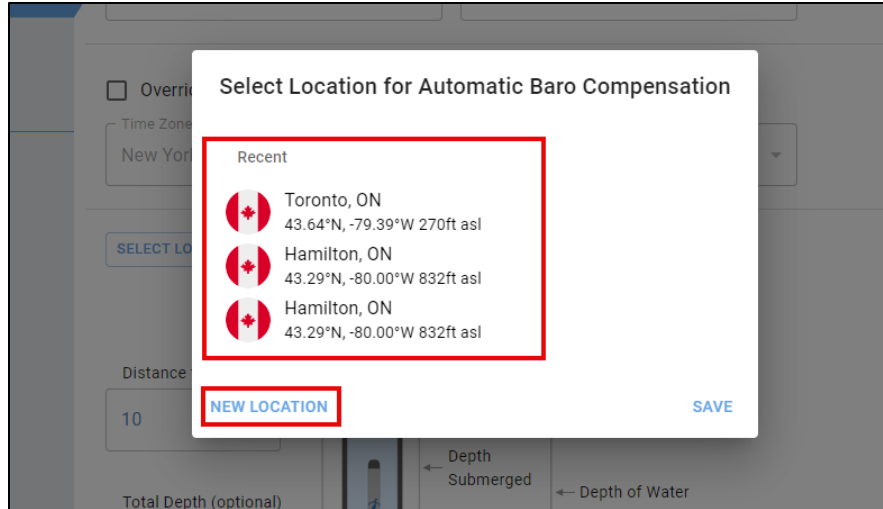
☒ Immediate start ☐ Future start

Future Start: 8/7/2025 01:08:54pm

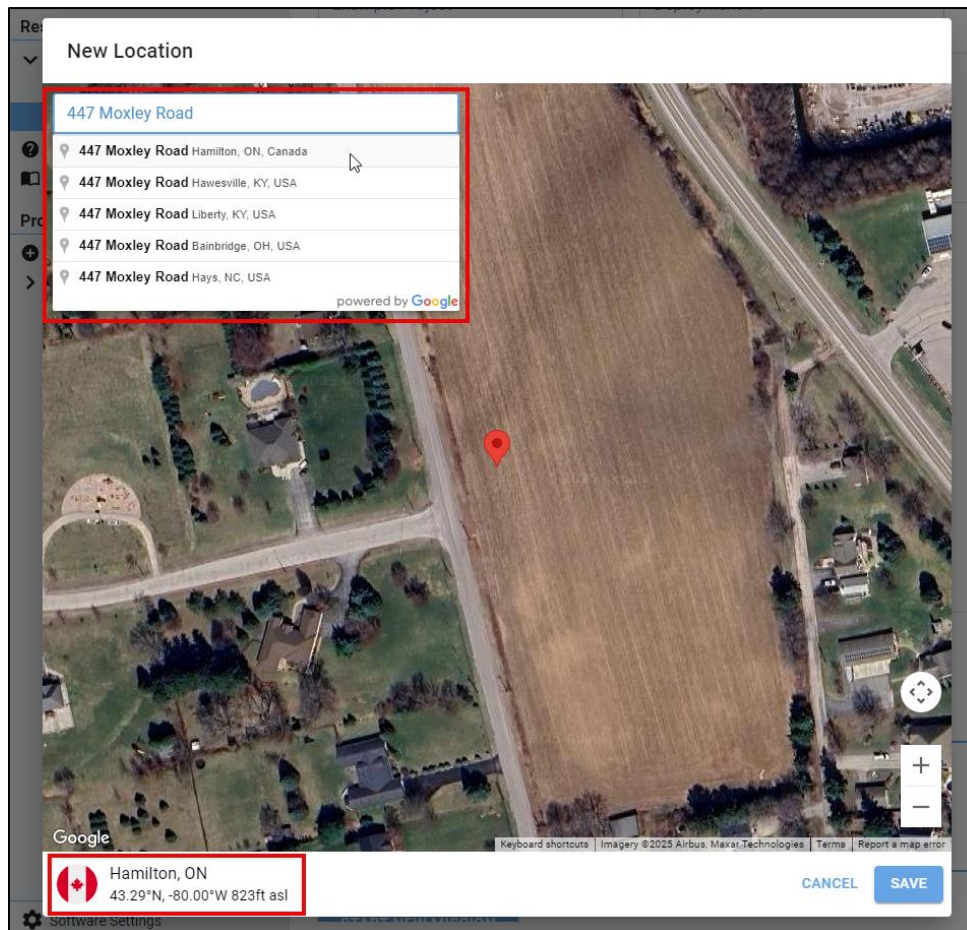
Linear

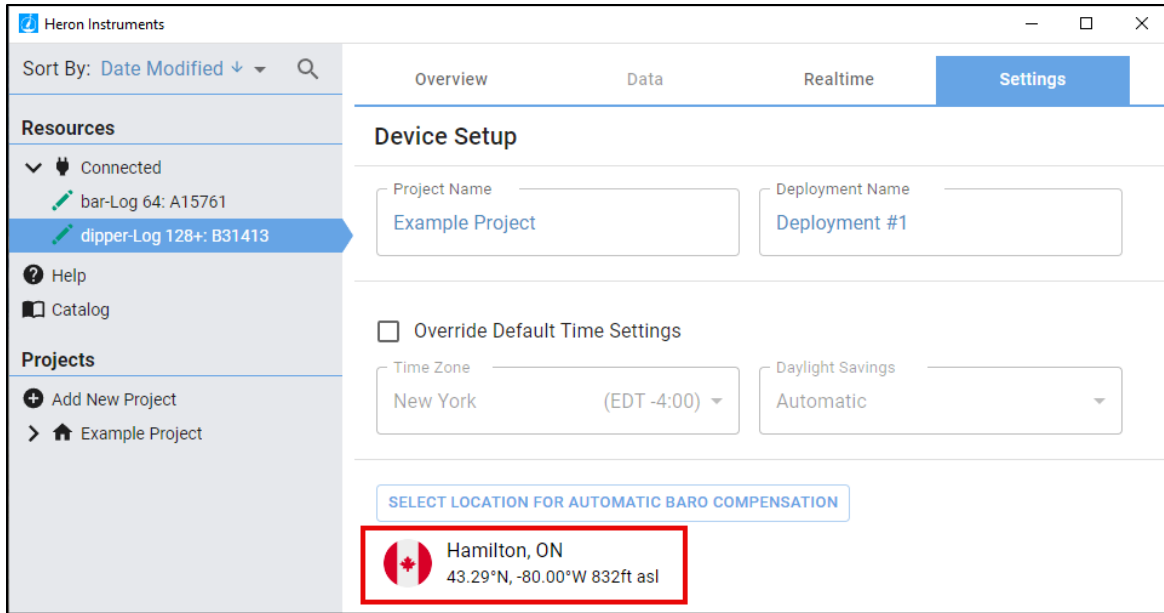
The dipper-Log will take a reading every

CONNECT **VIEW ALL**



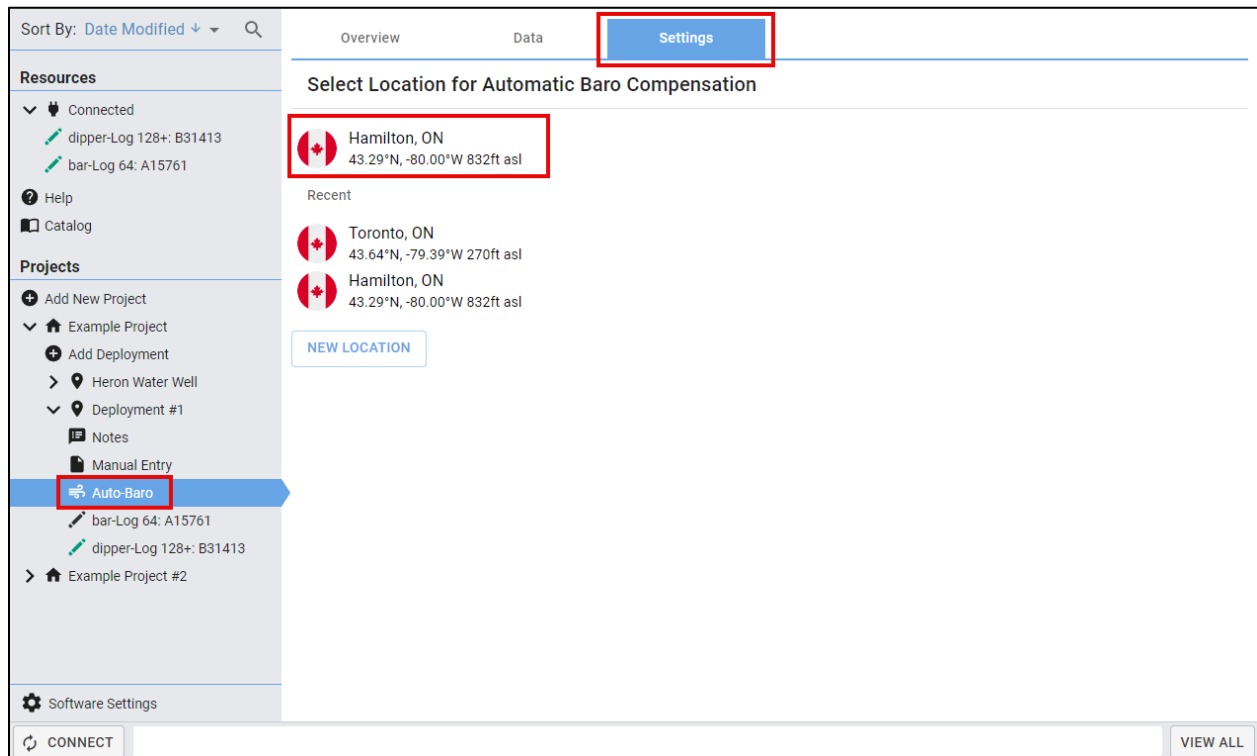
If selecting a new location, start typing the address of your deployment location and select an option from the dropdown menu. The coordinates will populate in the lower right-hand corner, then click **SAVE**. Select your recently added location and click **SAVE**. Your deployment location will now be displayed on the *Settings* tab.





Setting the Location After the Mission Has Started

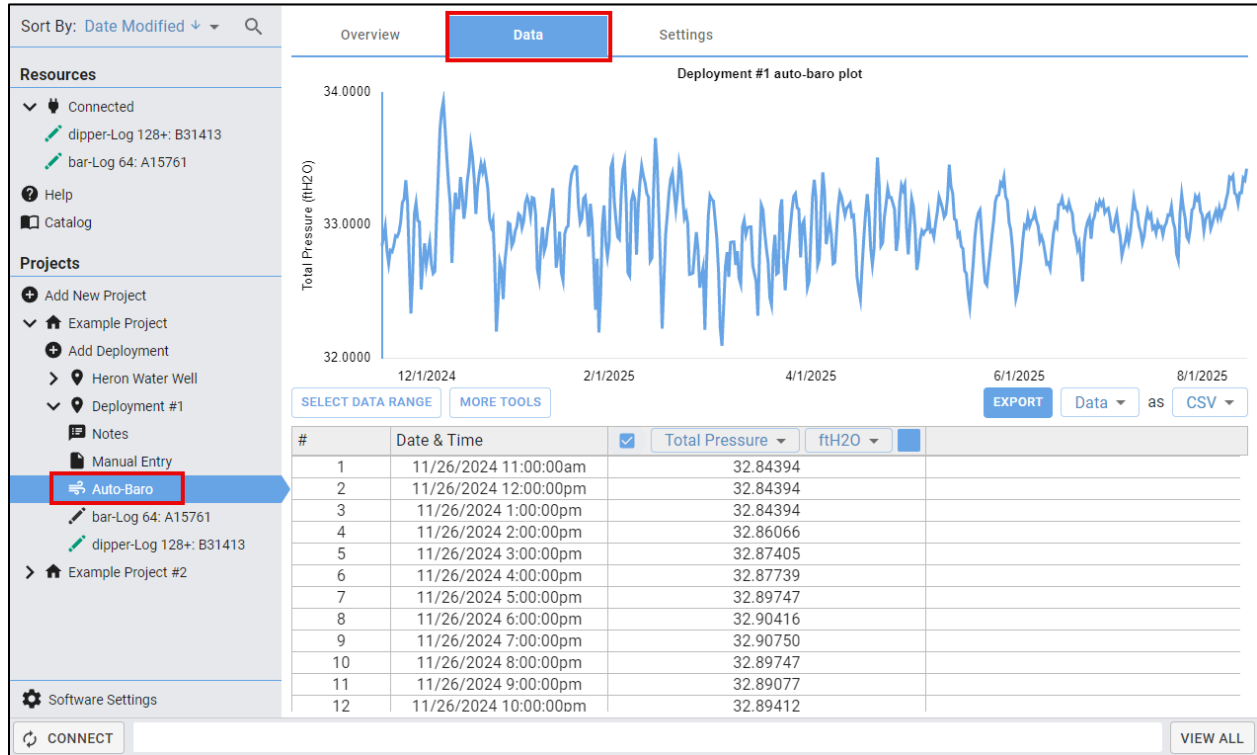
In the data management panel, navigate to your desired deployment. Click on *Auto-Baro* and then the *Settings* tab.



Select one of your recent locations or add a new location. The current location is the one at the top of the list (above the *Recent* header).

Auto-Baro Data Tab

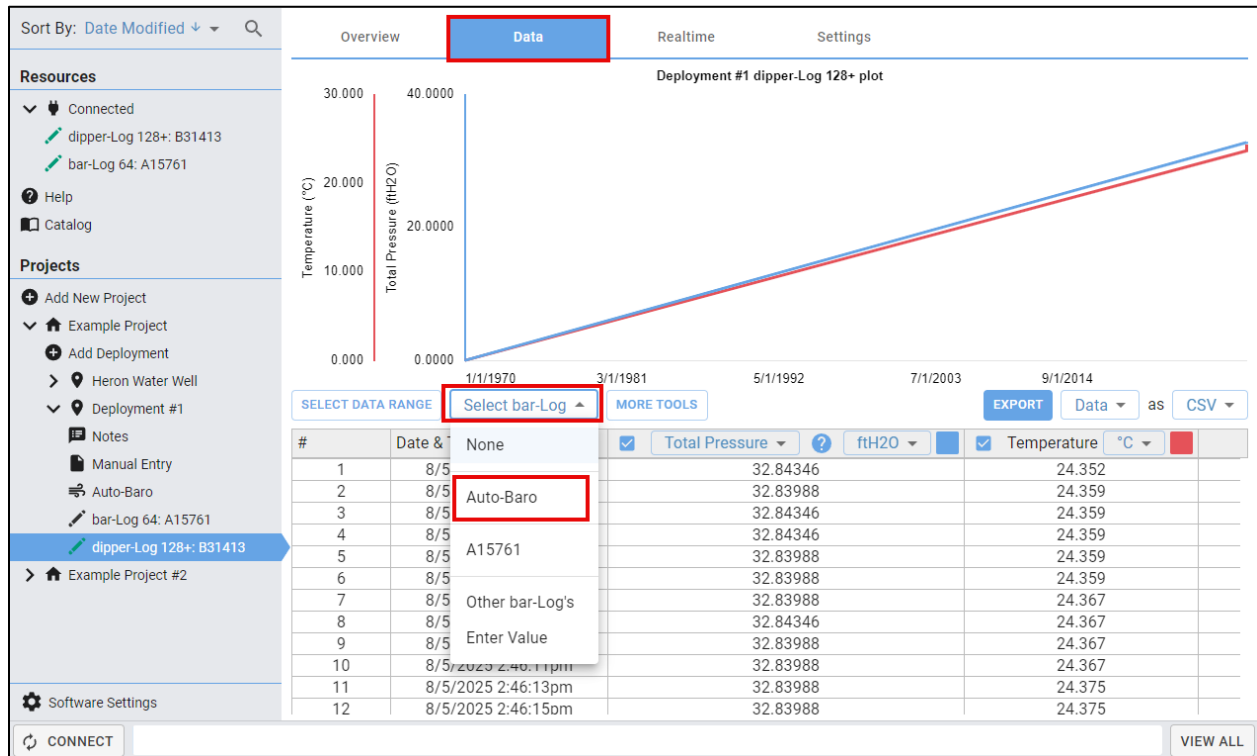
The Auto-Baro *Data* tab is similar to the *Data* tab for any logger. It displays a chart and graph along with the same filter features and tools. For instructions on modifying and exporting the chart/graph, filtering, and more tools please see the [Viewing and Refining the Data](#) chapter.



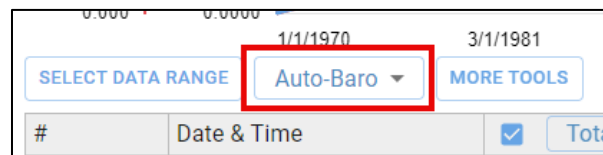
Upon initialization, Auto-Baro will download barometric data up to the oldest data point across all devices in the deployment. Auto-Baro takes one reading per hour and updates the *Data* tab every time it connects to the internet. This data is stored in the software's database.

Applying Auto-Baro for Data Compensation

Select your device and open the *Data* tab. Click on the *Select bar-Log* button and choose *Auto-Baro* from the dropdown list.



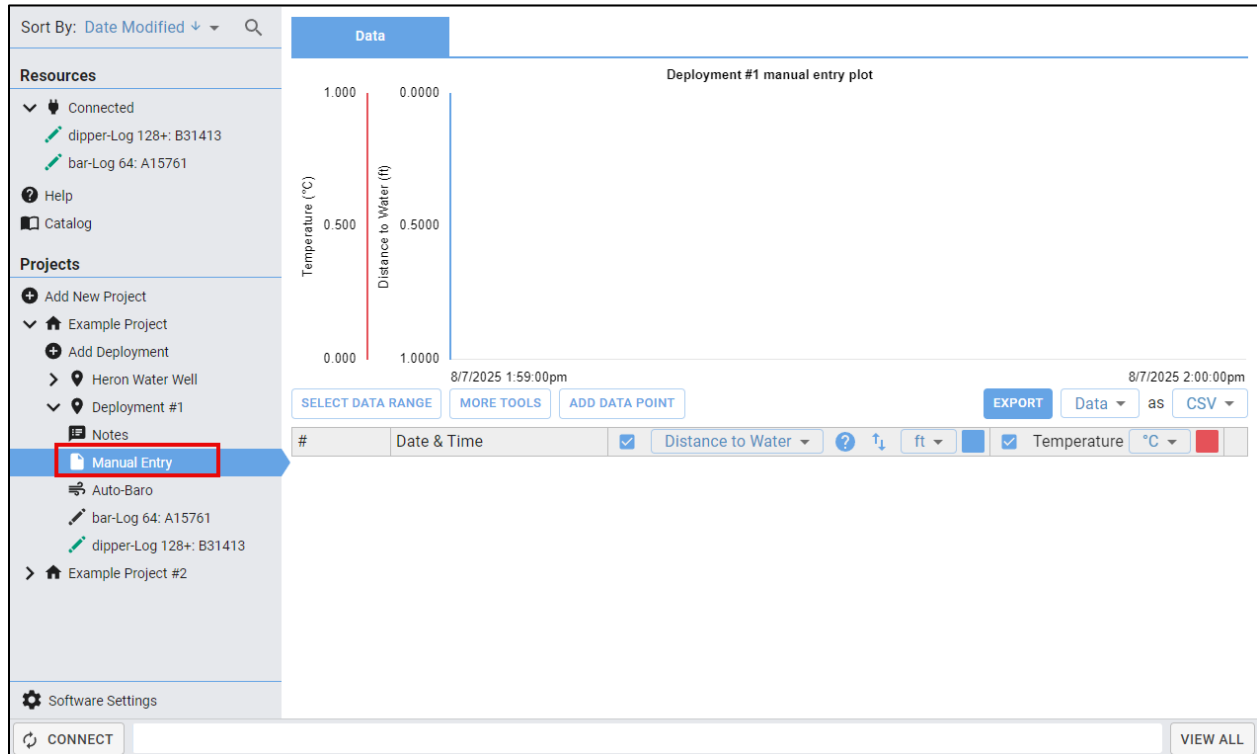
The field box will indicate that Auto-Baro is being used as a source for barometric pressure.



Manual Entry

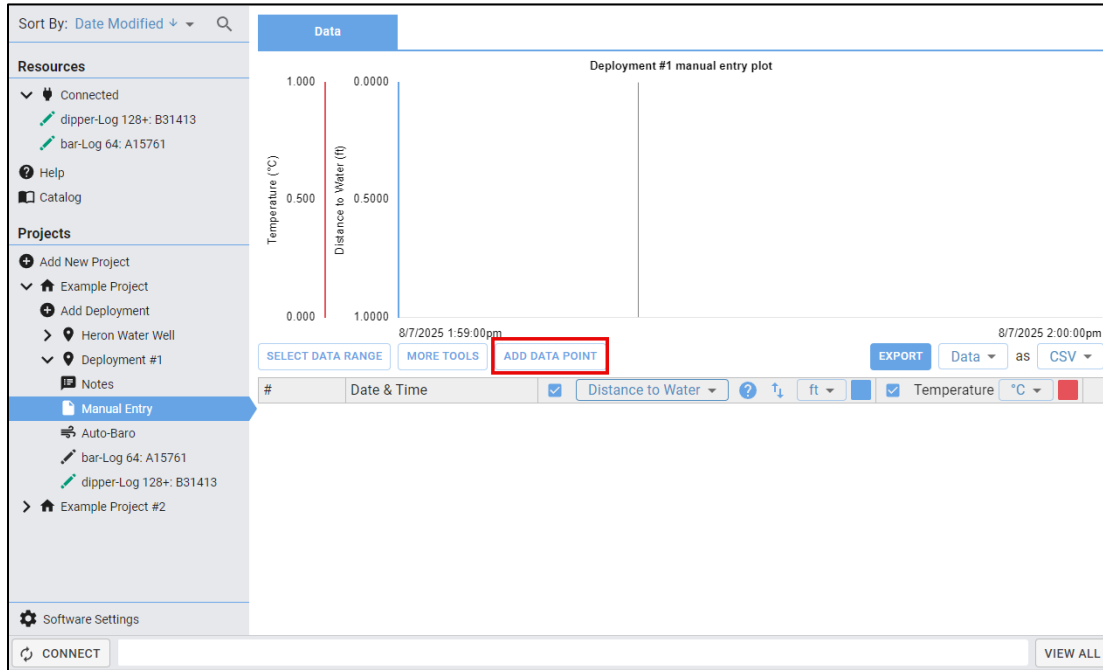
Within every deployment there is a *Manual Entry* tab. It allows you to manually add data points collected using a water level meter. These can then be used to adjust logger readings in the *Data* tab.

For instructions on modifying and exporting the chart/graph, filtering, and more tools please see the [Viewing and Refining the Data](#) chapter.

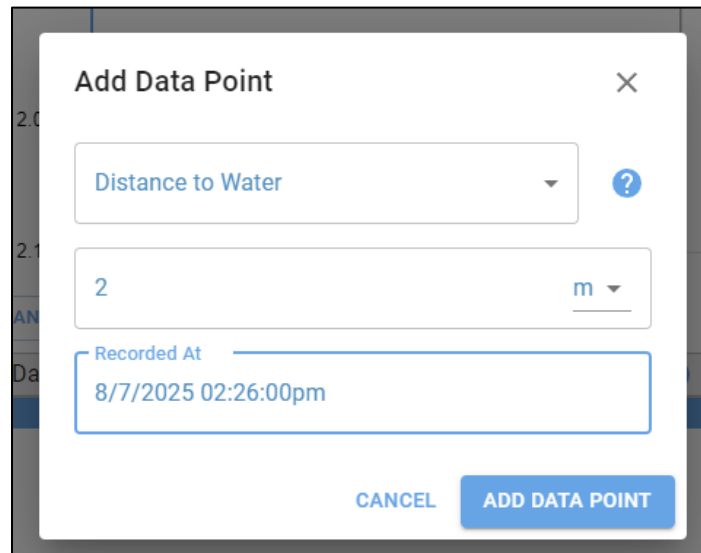


Adding Data Points

To add a data point, click on the **ADD DATA POINT** button. Select the parameter (Distance to Water or Temperature), enter the value, and input the timestamp. Press **ADD DATA POINT** to add it to the database.



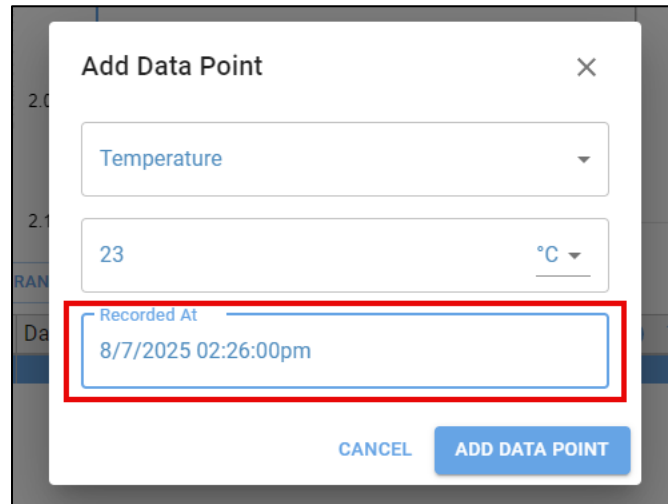
The screenshot shows the Heron Instruments software interface. On the left is a sidebar with 'Resources' (Connected devices: dipper-Log 128+, B31413; bar-Log 64: A15761) and 'Projects' (Add New Project, Example Project, Add Deployment, Heron Water Well, Deployment #1, Notes, Manual Entry, Auto-Baro, bar-Log 64: A15761, dipper-Log 128+: B31413, Example Project #2). The main area is titled 'Data' and shows a 'Deployment #1 manual entry plot' with axes for Temperature (°C) and Distance to Water (ft). Below the plot is a table with columns '#', 'Date & Time', 'Distance to Water', and 'Temperature'. The 'ADD DATA POINT' button is highlighted in red. Other buttons include 'SELECT DATA RANGE', 'MORE TOOLS', 'EXPORT', 'Data', 'as', 'CSV', and 'VIEW ALL'.



The 'Add Data Point' dialog box is shown. It has a title bar with a close button (X). The main area contains a dropdown menu set to 'Distance to Water', a text input field with the value '2' and a unit dropdown set to 'm', and a 'Recorded At' section with a timestamp '8/7/2025 02:26:00pm'. At the bottom are 'CANCEL' and 'ADD DATA POINT' buttons.

#	Date & Time	<input checked="" type="checkbox"/>	Distance to Water	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Temperature	<input type="checkbox"/>
1	8/7/2025 2:26:00pm		2.0000					

Note: Data can only be input for one parameter at a time. Therefore, to add a datapoint with both parameters, repeat the process – now selecting the other parameter. Ensure that the timestamps match to create one single datapoint.



#	Date & Time	<input checked="" type="checkbox"/> Distance to Water	<input checked="" type="checkbox"/> Temperature
1	8/7/2025 2:26:00pm	2.0000	23.000

Note: Adding additional entries with the same timestamp will overwrite existing ones. Therefore, data points must be at least one minute apart (as you cannot edit the seconds in the timestamp).

Adjusting Logger Data to Match Manually Entered Data

Once you've entered your manual data, the software uses it to adjust the logger readings. It identifies the two closest data points in time—one from the manual data and one from the logger. Then it calculates the difference between their values and applies that difference as a shift to all logger data. For example:

	Timestamp	Distance to Water
Logger	8/7/2025 03:05:15pm	9m
Manual Entry	8/7/2025 03:05:00pm	8m

The software identified these two data points were the closest in time. Therefore, 1m would be subtracted from all the Distance to Water values in the logger dataset.

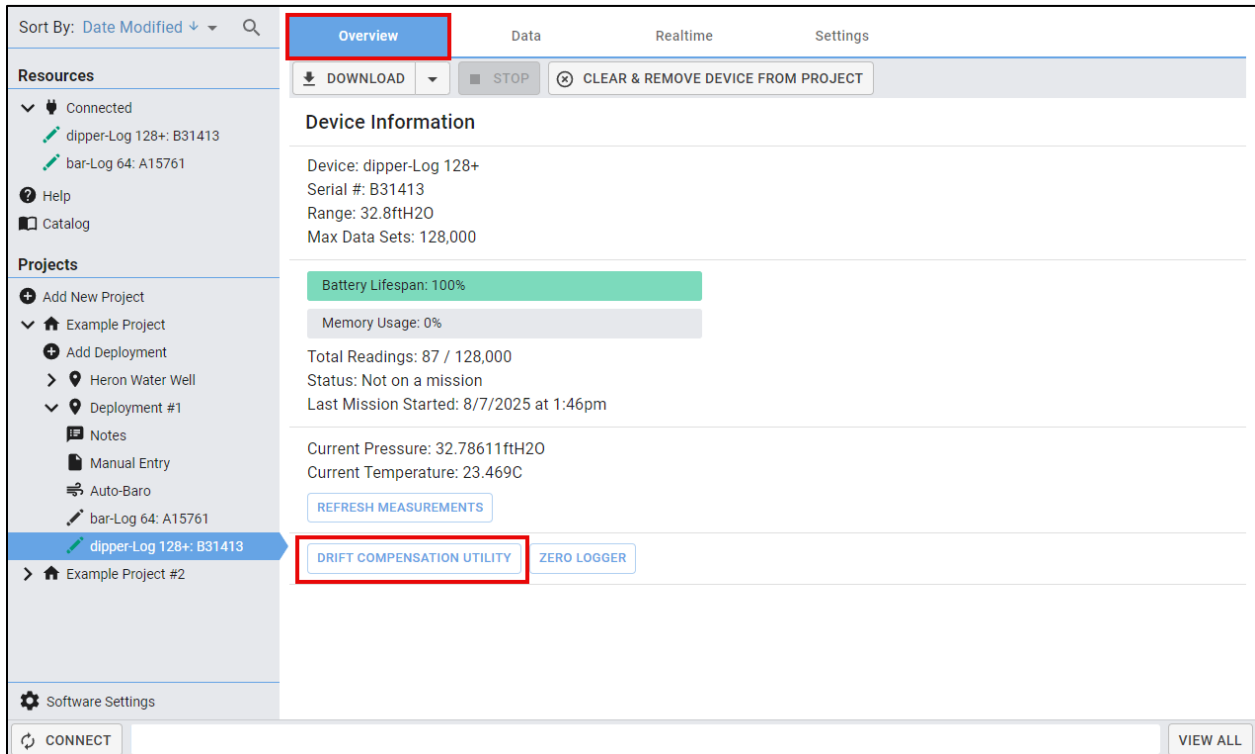
See the [More Tools](#) section on how to apply this adjustment.

Other Features and Tools

Drift Compensation

Drift Compensation is a basic correction tool for pressure transducers that may have experienced drift over time. It is also used for achieving higher accuracy in extremely low water level conditions. This feature is only available when the logger is connected.

Select the device and go to the *Overview* tab. Click on the *DRIFT COMPENSATION UTILITY*.

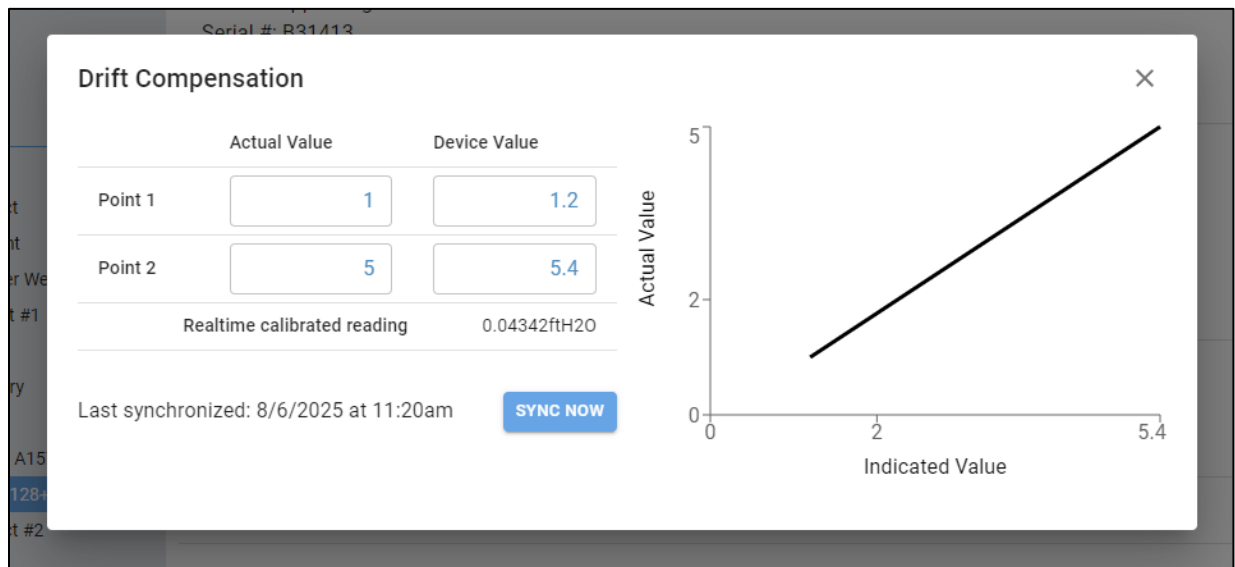


The screenshot displays the Heron Instruments web interface. On the left sidebar, under 'Resources', 'Connected' devices are listed: 'dipper-Log 128+: B31413' and 'bar-Log 64: A15761'. The 'dipper-Log 128+: B31413' device is selected. The main panel shows the 'Overview' tab, which is highlighted with a red box. Below the tab are buttons for 'DOWNLOAD', 'STOP', and 'CLEAR & REMOVE DEVICE FROM PROJECT'. The 'Device Information' section lists: Device: dipper-Log 128+, Serial #: B31413, Range: 32.8ftH2O, and Max Data Sets: 128,000. Below this are progress bars for 'Battery Lifespan: 100%' and 'Memory Usage: 0%'. Further down, it shows 'Total Readings: 87 / 128,000', 'Status: Not on a mission', and 'Last Mission Started: 8/7/2025 at 1:46pm'. The 'Current Pressure: 32.78611ftH2O' and 'Current Temperature: 23.469C' are also displayed. A 'REFRESH MEASUREMENTS' button is present. At the bottom of the main panel, the 'DRIFT COMPENSATION UTILITY' button is highlighted with a red box, next to a 'ZERO LOGGER' button. The bottom of the interface features a 'CONNECT' button and a 'VIEW ALL' button.

Configuring the Tool

To configure the tool, you will need two data points that you can accurately expose your logger to while taking a real-time reading. Both values must be in the logger's original range.

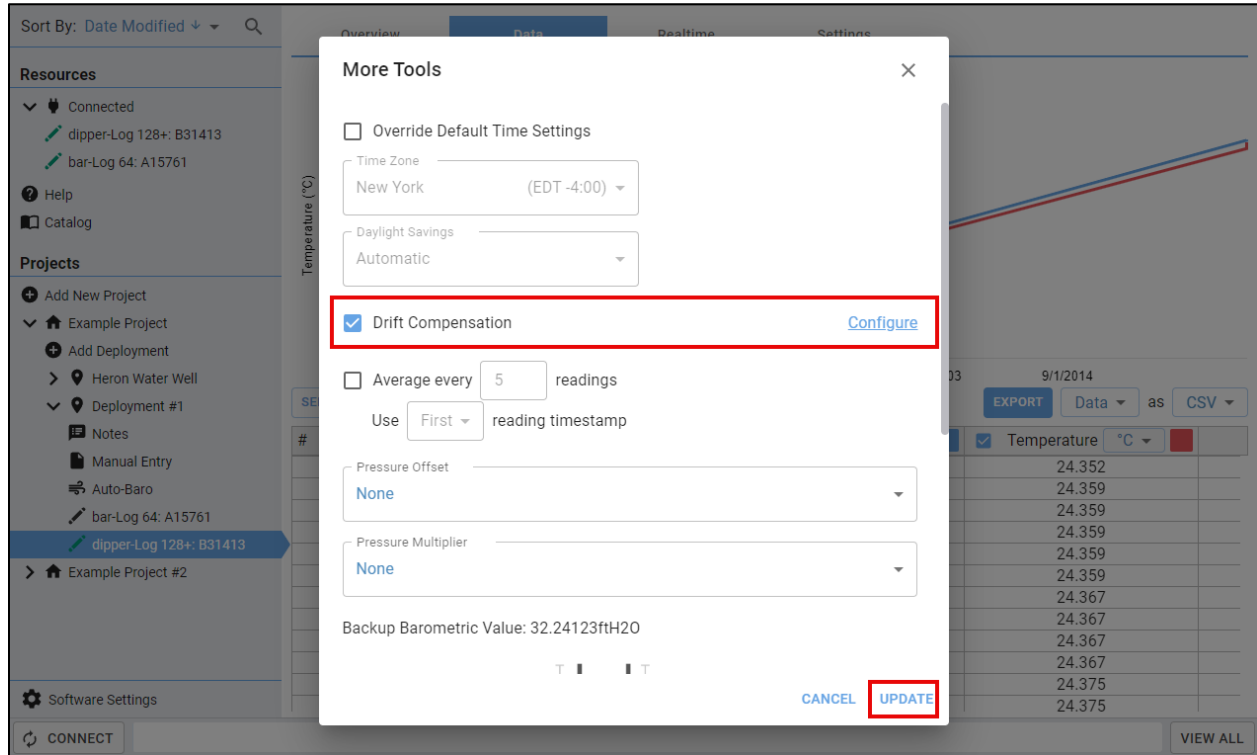
In the *Actual Value* column, enter the values the logger is expected to provide. In the *Device Value* column, enter the values currently being recorded by the device. The graph will reflect the transformations needed. Press *SYNC NOW* to save your changes.



If you need to make changes to the tool, click on *DRIFT COMPENSATION UTILITY*; your previous values will still be displayed. Update them as necessary and press *SYNC NOW*.

Applying the Drift Compensation to Your Data

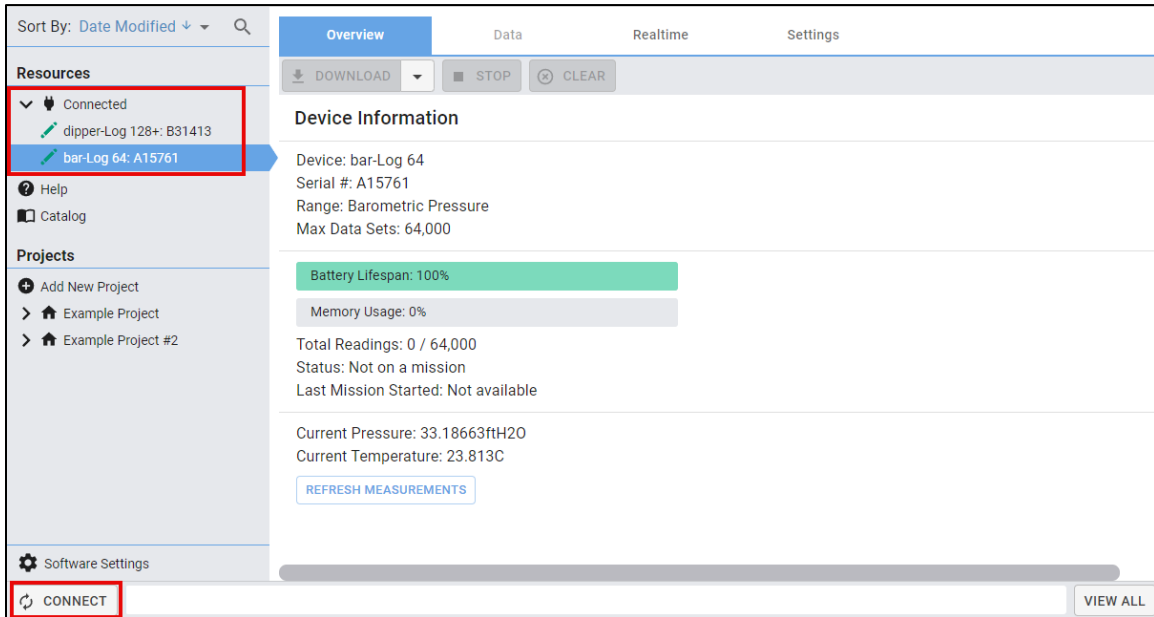
Navigate to the *Data* tab and press *MORE TOOLS*. Check the *Drift Compensation* box and click *UPDATE* to apply it to your data. You can also configure the tool from the *MORE TOOLS* menu by clicking on *Configure*.



This tool is ideal to use for shallow deployment compensation. If you plan on using this feature regularly, we recommend purchasing a direct read cable to conveniently get readings from discrete levels.

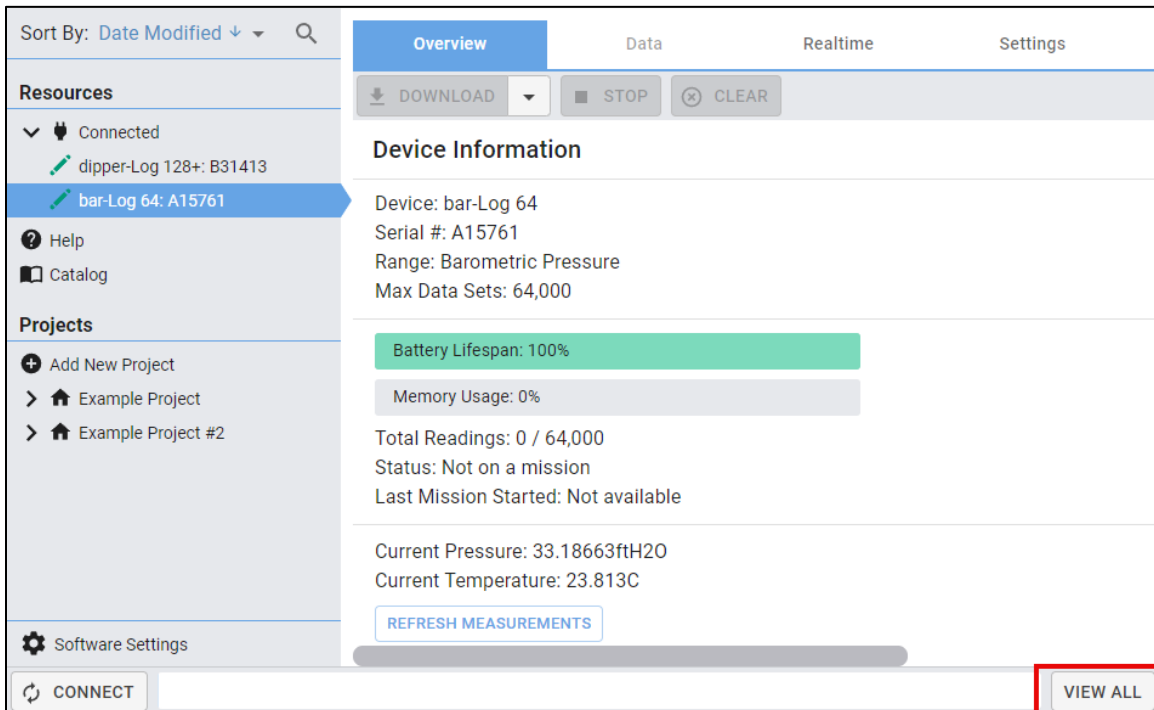
Multi-Device Download

Multi-device download is available to help you save time—especially if you have 100+ loggers in a project. A separate PC-communication cable is required for every device as well as a USB port to connect to your computer. Plug in all your devices and press the *CONNECT* button. Your devices should appear under *Connected* in the data management panel.



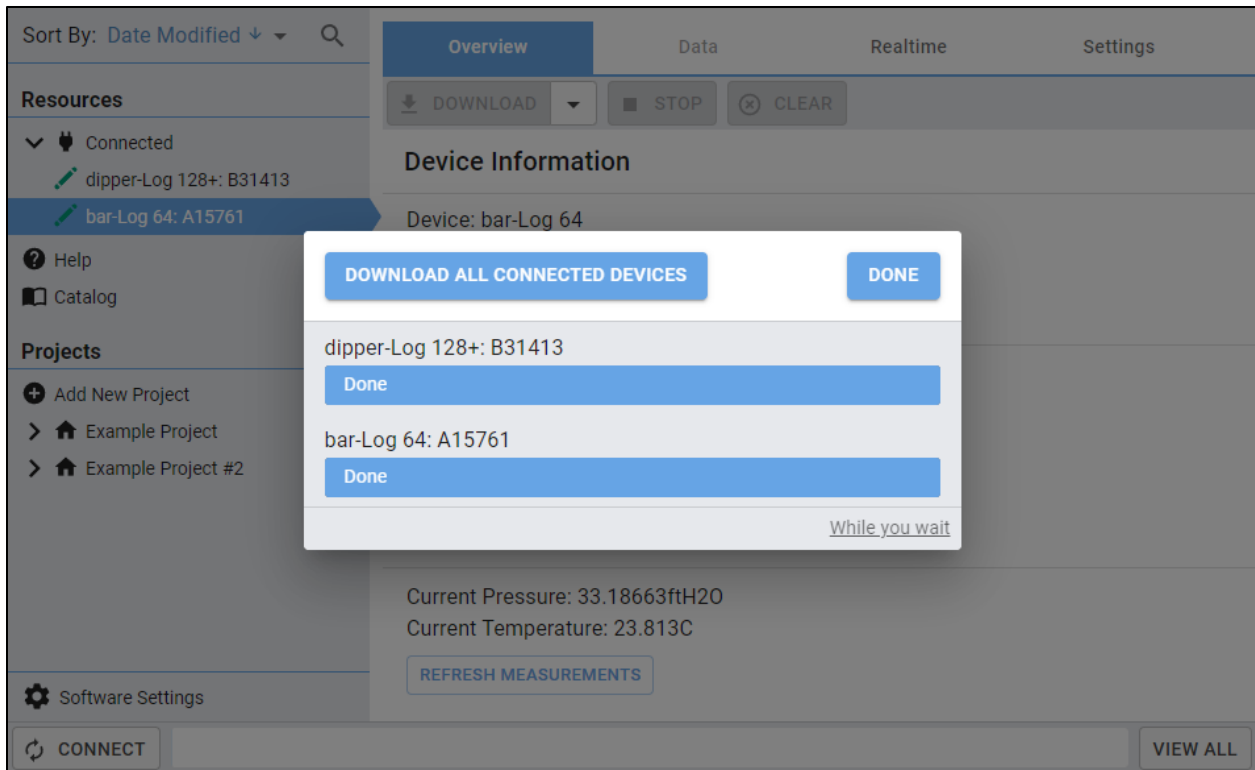
The screenshot shows the Heron Instruments software interface. On the left sidebar, the 'Resources' section is expanded, and the 'Connected' subsection is highlighted with a red box. Below it, two devices are listed: 'dipper-Log 128+: B31413' and 'bar-Log 64: A15761'. The 'bar-Log 64: A15761' device is selected, and its details are shown in the main panel. The 'CONNECT' button at the bottom left is also highlighted with a red box. The 'VIEW ALL' button at the bottom right is visible but not highlighted.

Click *VIEW ALL* in the bottom right-hand corner of the screen. This will display a window with all your devices and their statuses.



The screenshot shows the same Heron Instruments software interface. The 'CONNECT' button at the bottom left is no longer highlighted. The 'VIEW ALL' button at the bottom right is now highlighted with a red box. The 'bar-Log 64: A15761' device remains selected, and its details are still displayed in the main panel.

Click **DOWNLOAD ALL CONNECTED DEVICES** and your data will begin downloading from all your devices.

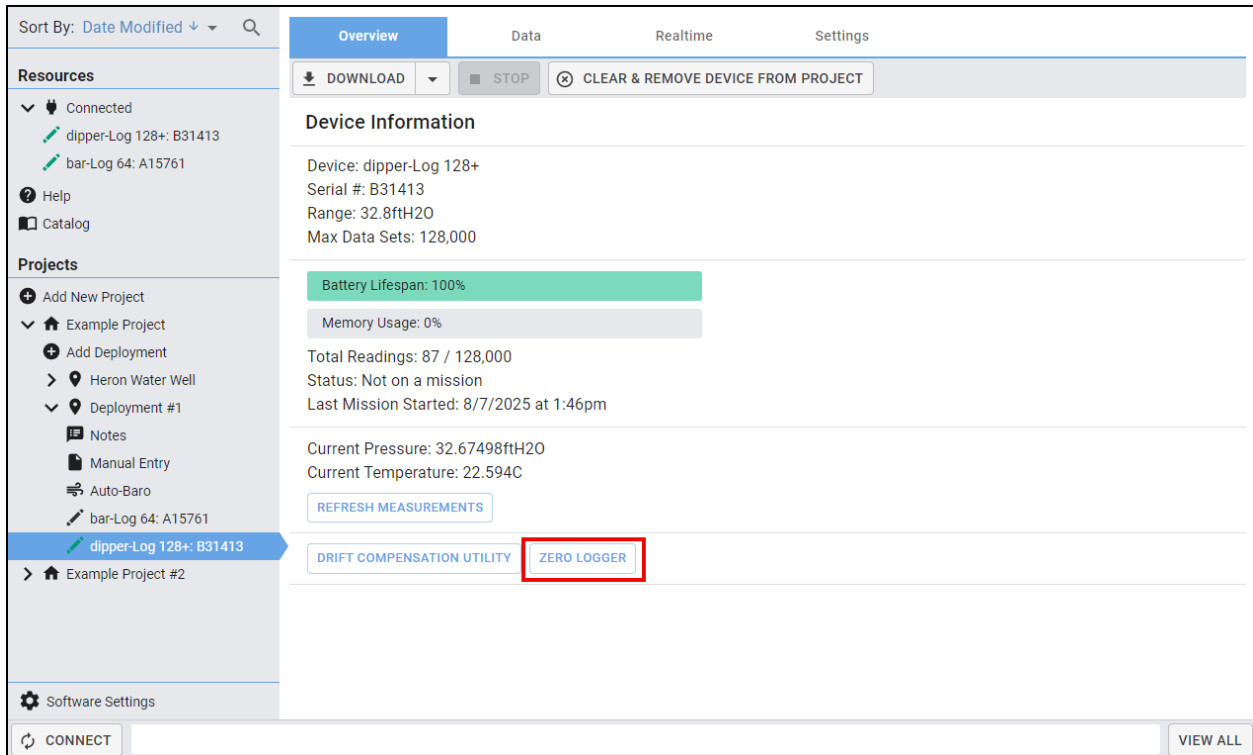


The screenshot displays the Heron Instruments software interface. On the left sidebar, the 'Resources' section shows two connected devices: 'dipper-Log 128+: B31413' and 'bar-Log 64: A15761'. The 'bar-Log 64: A15761' device is selected. A modal window is open in the center, titled 'Device Information', which lists the two connected devices with 'Done' buttons next to each. At the top of the modal is a prominent blue button labeled 'DOWNLOAD ALL CONNECTED DEVICES' and a 'DONE' button. Below the device list, a link says 'While you wait'. The background interface includes tabs for 'Overview', 'Data', 'Realtime', and 'Settings'. The 'Overview' tab is active, showing a 'DOWNLOAD' button with a dropdown, 'STOP', and 'CLEAR' buttons. Below the modal, the 'Device Information' section shows 'Device: bar-Log 64' and real-time data: 'Current Pressure: 33.18663ftH2O' and 'Current Temperature: 23.813C', with a 'REFRESH MEASUREMENTS' button. The bottom of the interface has a 'CONNECT' button and a 'VIEW ALL' button.

Zeroing the Logger

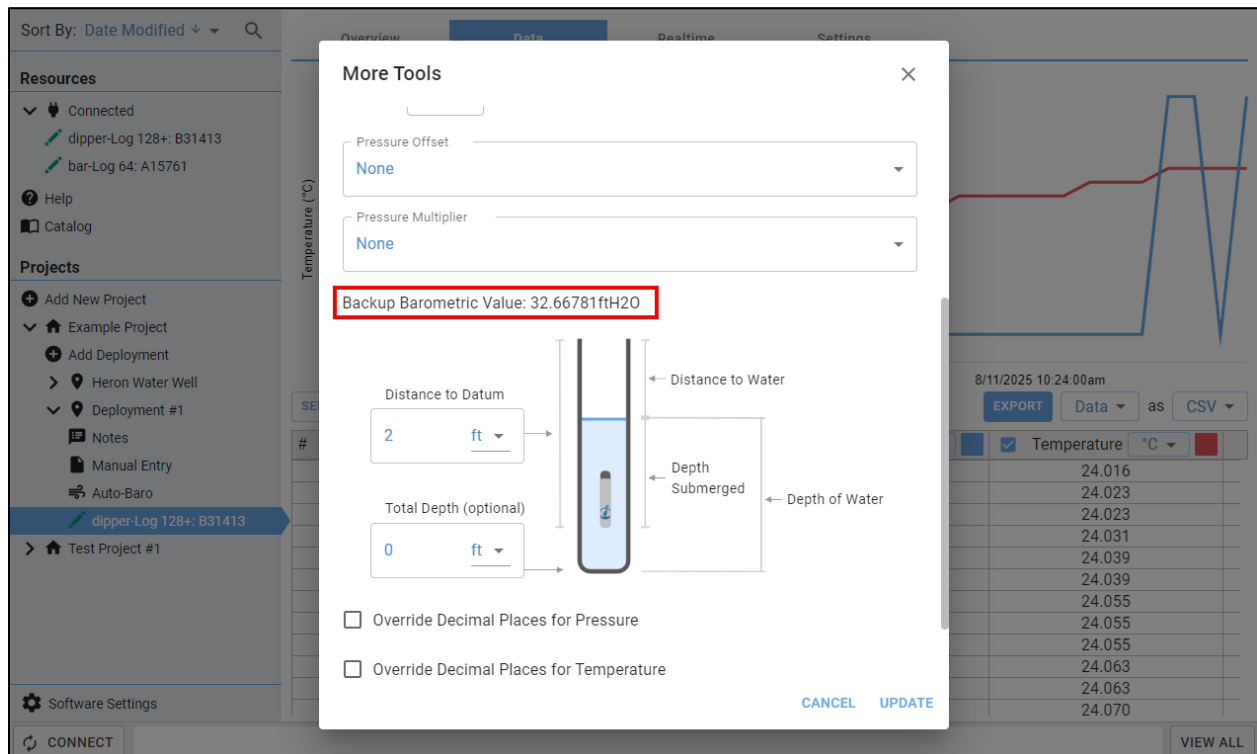
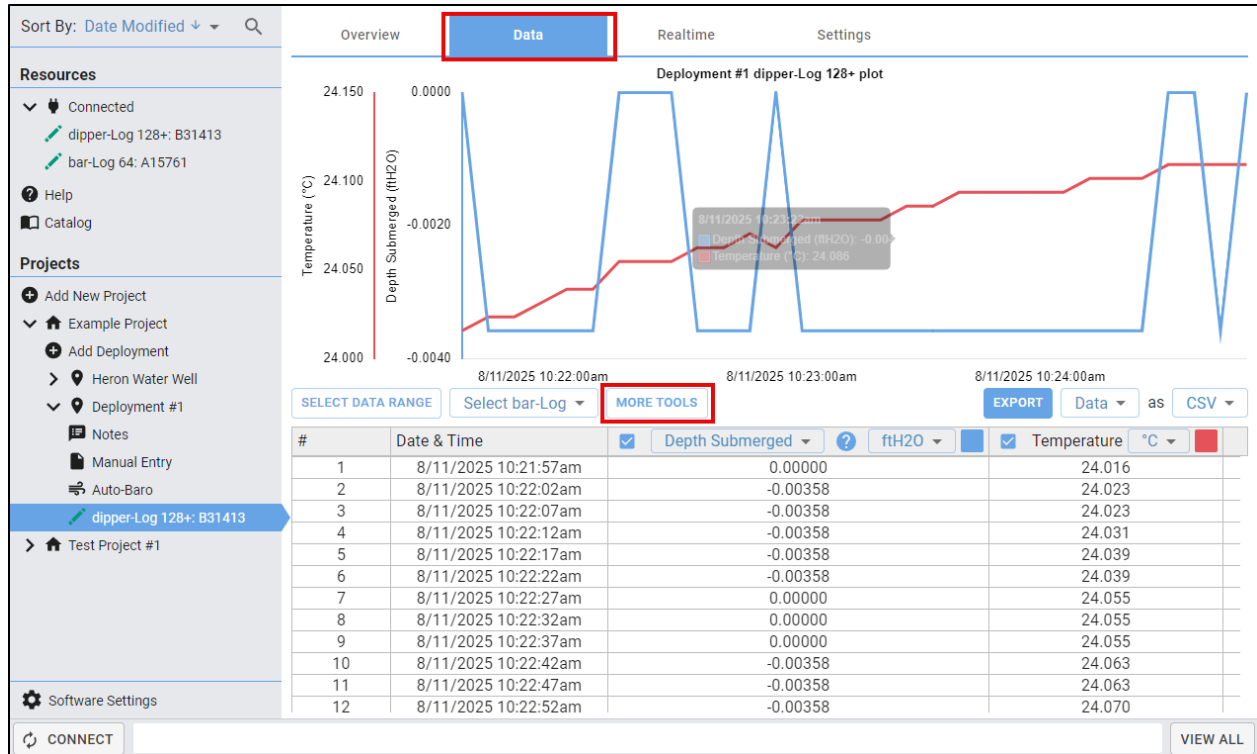
Zeroing a logger is a way to account for barometric pressure without a separate barometric pressure source, like a bar-Log. When zeroing a logger, a pressure reading is taken and stored in a separate section of the logger. This reading is called the back-up or programmed value. It can be used as the barometric pressure for data compensation or pressure offsets if no barometric pressure source is selected (e.g. Auto-Baro or a bar-Log). See [Barometric Pressure Compensation](#) for more information. It is always recommended to zero your logger as a back-up procedure.

Ensure your logger is connected to the computer and not submerged underwater (must be in air only). Select your logger and go to the *Overview* tab. Click on *ZERO LOGGER*.



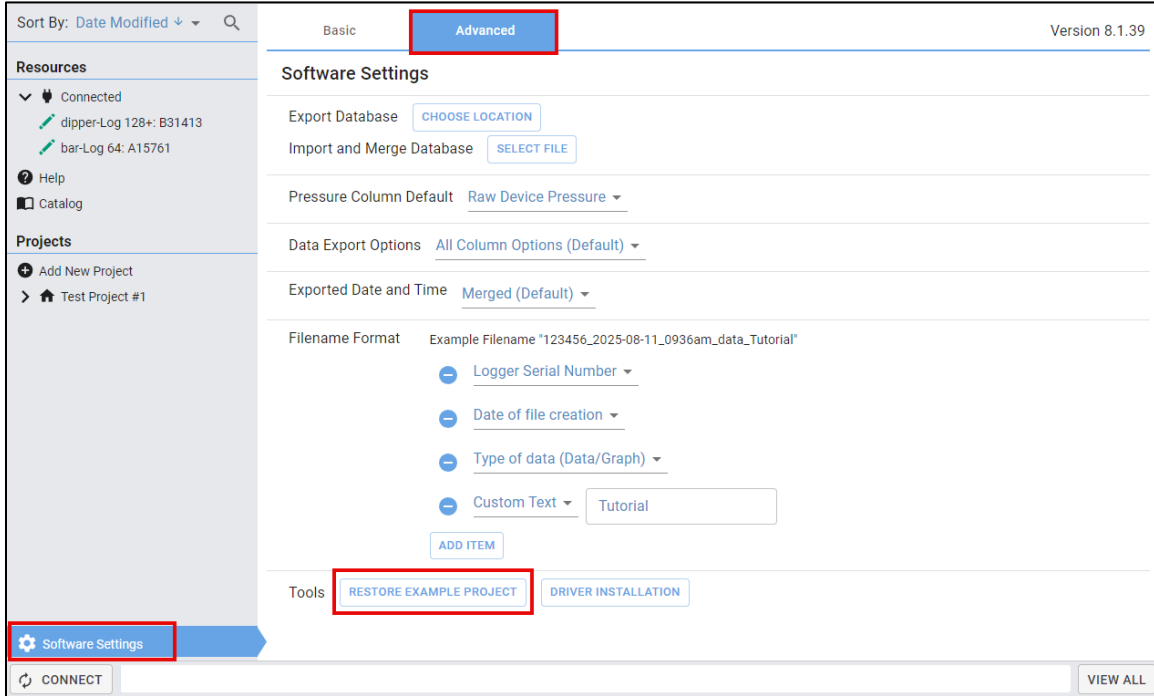
The screenshot displays the Heron Instruments software interface. On the left, a sidebar lists 'Resources' (Connected devices: dipper-Log 128+: B31413, bar-Log 64: A15761) and 'Projects' (Example Project, Add Deployment, Heron Water Well, Deployment #1, Notes, Manual Entry, Auto-Baro, bar-Log 64: A15761, dipper-Log 128+: B31413). The main area shows the 'Overview' tab for the selected logger. It includes a 'Device Information' section with details like Device: dipper-Log 128+, Serial #: B31413, Range: 32.8ftH2O, and Max Data Sets: 128,000. Below this are progress bars for Battery Lifespan (100%) and Memory Usage (0%). Further down, it shows Total Readings (87 / 128,000), Status (Not on a mission), and Last Mission Started (8/7/2025 at 1:46pm). At the bottom, there are buttons for 'REFRESH MEASUREMENTS', 'DRIFT COMPENSATION UTILITY', and 'ZERO LOGGER' (highlighted with a red box). The bottom of the interface features a 'CONNECT' button and a 'VIEW ALL' link.

The barometric pressure value stored from zeroing the logger can be viewed after your data has been downloaded. Go to the *Data* tab and click on *MORE TOOLS*. The value is named as the “Backup Barometric Value.”

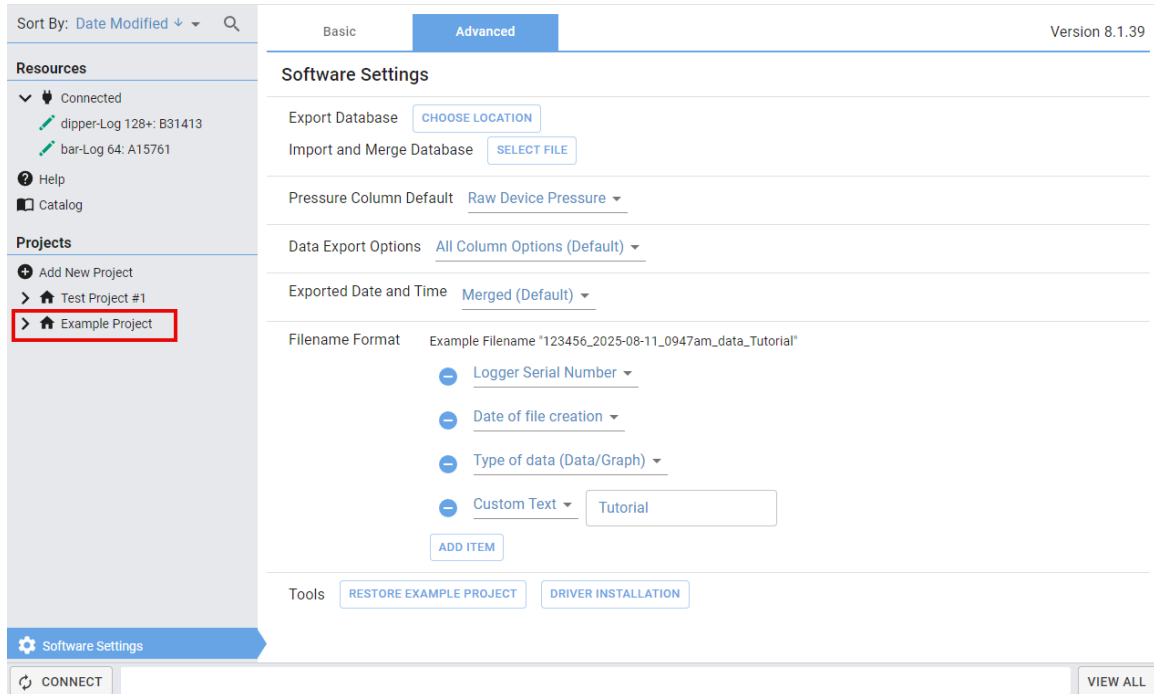


Restoring the Example Project

The Example Project included when the software is first downloaded can be restored or reset at any time. Go to *Software Settings*, *Advanced* tab and then click on *RESTORE EXAMPLE PROJECT*. Note: if you have added data to the Example Project, it will be deleted.



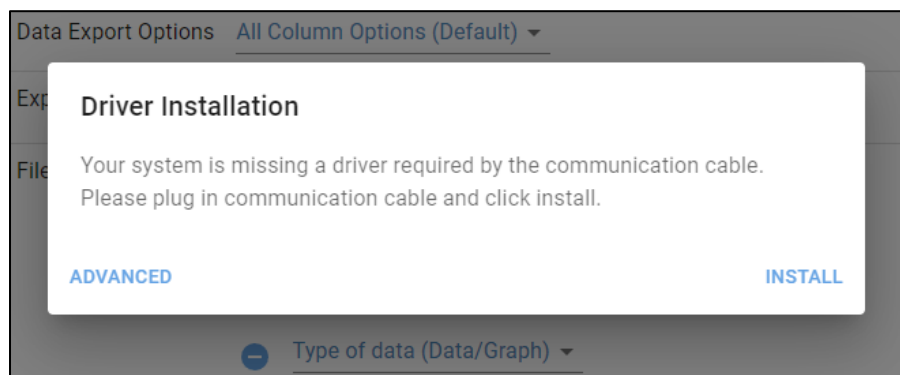
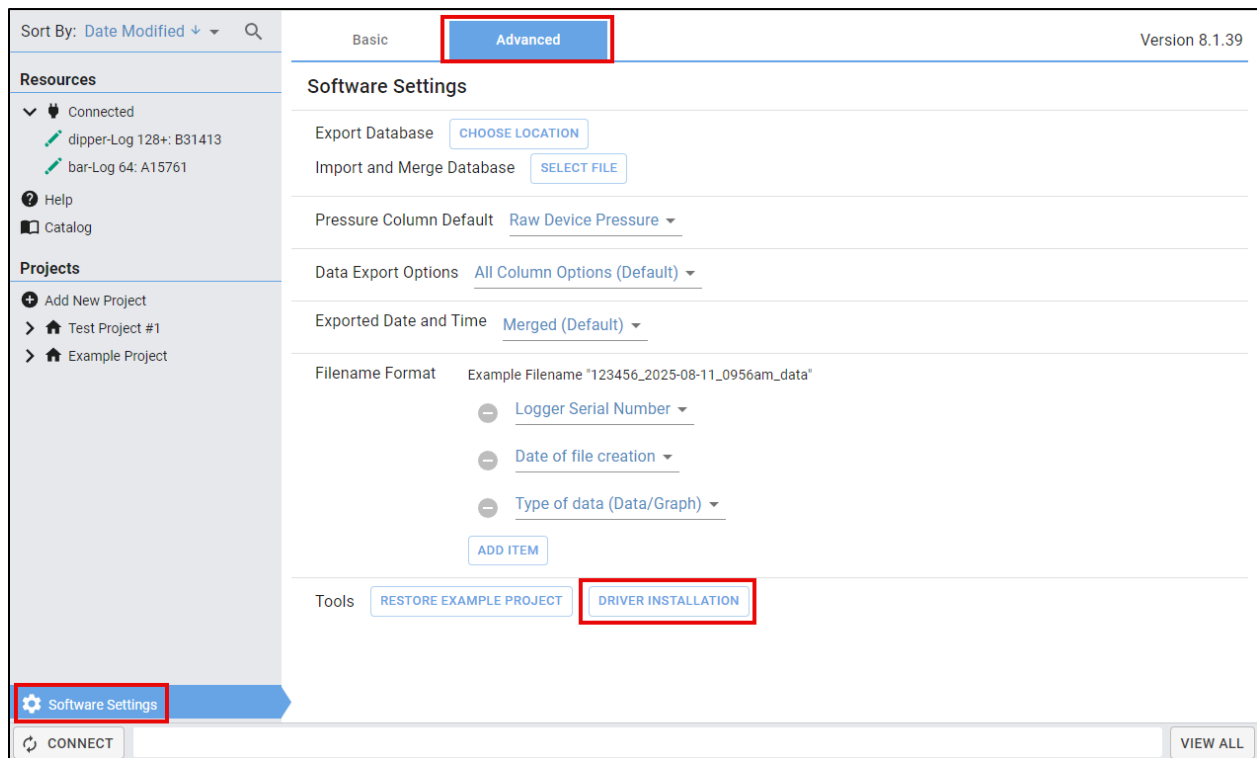
Once restored, the Example Project will be visible in the Data Management Panel.



Driver Installation

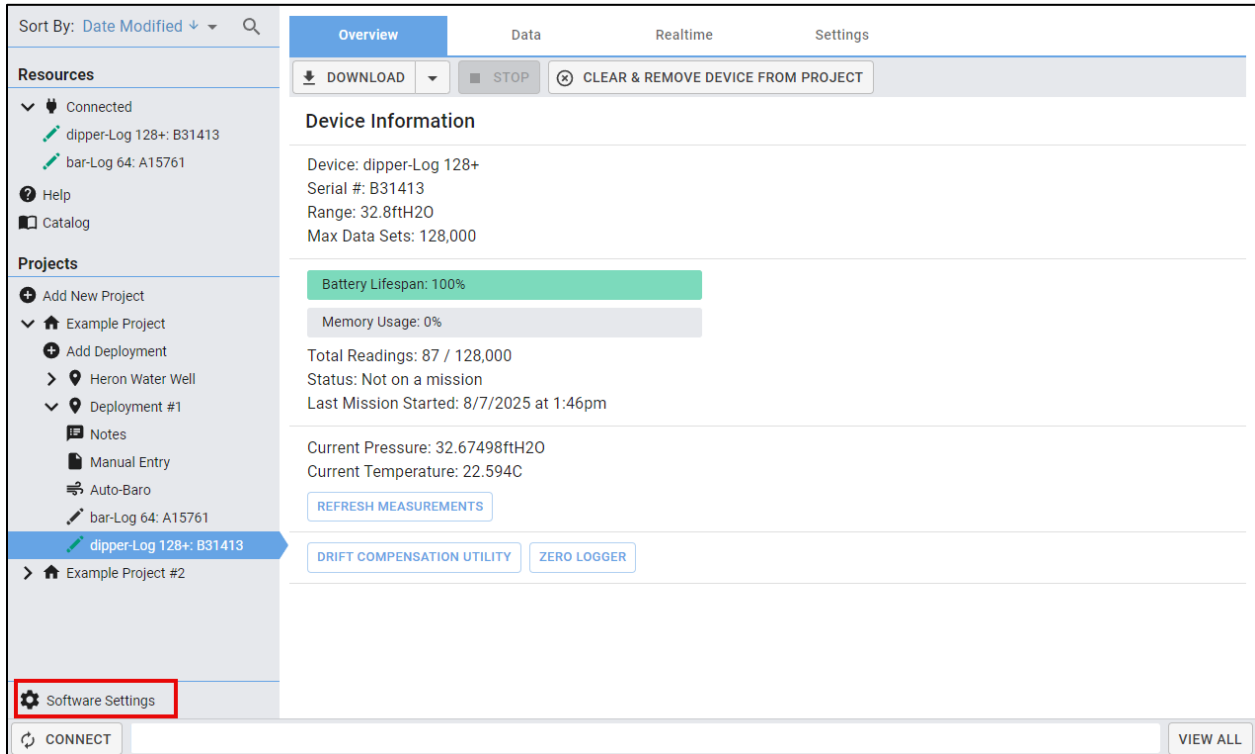
To install drivers, go to *Software Settings*, *Advanced* tab and click on *DRIVER INSTALLATION*. A window will appear indicating if you are missing any drivers. Click *INSTALL* and follow the on-screen steps similar to the initial software installation.

In the pop-up window you are also able to click on *ADVANCED*. Follow the on-screen instructions. To install drivers with no internet connection, click on *OFFLINE DRIVE INSTALLATION*.



Changing the Default Settings

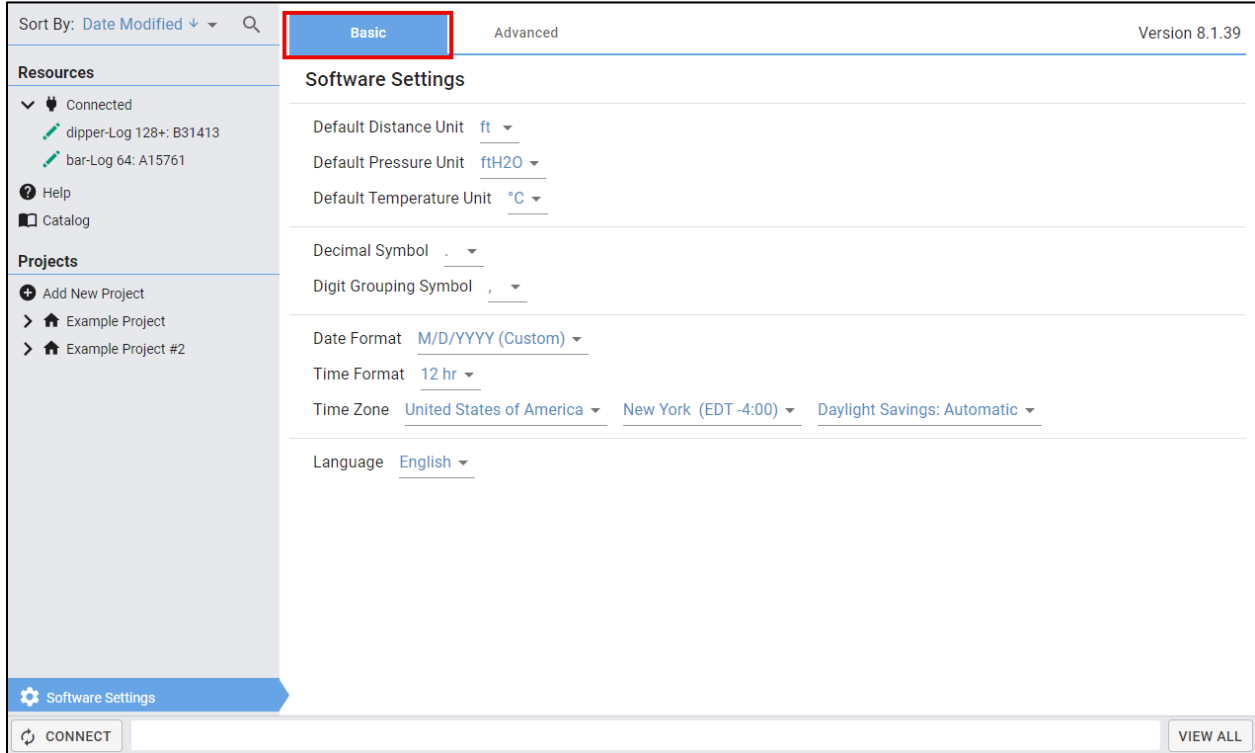
To change the default software settings, click on *Software Settings* in the bottom left-hand corner of the screen.



The screenshot displays the Heron Instruments software interface. On the left sidebar, under the 'Resources' section, the 'Software Settings' option is highlighted with a red box. The main panel shows the 'Overview' tab selected, displaying device information for a 'dipper-Log 128+' device. The device information includes: Device: dipper-Log 128+, Serial #: B31413, Range: 32.8ftH2O, and Max Data Sets: 128,000. Below this, there are progress bars for 'Battery Lifespan: 100%' and 'Memory Usage: 0%'. Further down, it shows 'Total Readings: 87 / 128,000', 'Status: Not on a mission', and 'Last Mission Started: 8/7/2025 at 1:46pm'. At the bottom of the main panel, there are buttons for 'REFRESH MEASUREMENTS', 'DRIFT COMPENSATION UTILITY', and 'ZERO LOGGER'. The bottom of the interface features a 'CONNECT' button on the left and a 'VIEW ALL' button on the right.

Basic Settings

In the Basic tab, you can change the default units, decimal symbol, digit group symbol, date and time formats, and the language, suitable for your region. Use the dropdown arrows to view the options and make your selection.



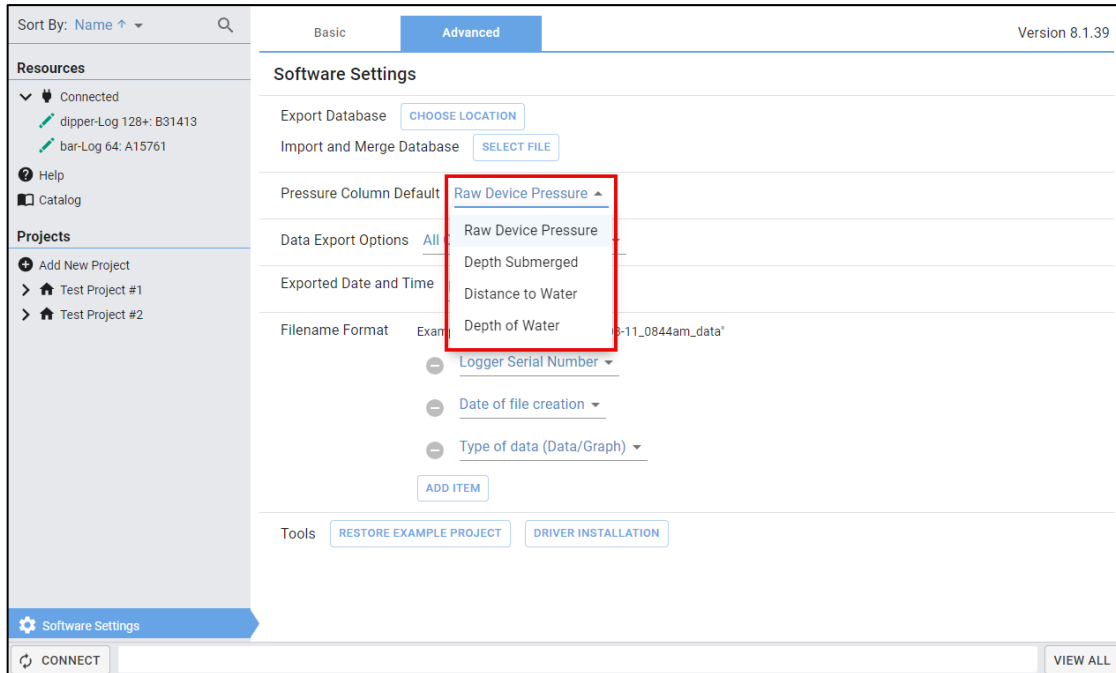
The screenshot displays the Heron Instruments software interface. At the top, there is a header bar with a search icon and a 'Sort By: Date Modified' dropdown. Below this, the 'Basic' tab is highlighted with a red box, and the 'Advanced' tab is visible. The version number 'Version 8.1.39' is shown in the top right corner. On the left side, there is a sidebar with 'Resources' (including 'Connected' devices like 'dipper-Log 128+ B31413' and 'bar-Log 64: A15761', and 'Help' and 'Catalog' links) and 'Projects' (including 'Add New Project', 'Example Project', and 'Example Project #2'). The main area is titled 'Software Settings' and contains several dropdown menus: 'Default Distance Unit' (ft), 'Default Pressure Unit' (ftH2O), 'Default Temperature Unit' (°C), 'Decimal Symbol' (.), 'Digit Grouping Symbol' (,), 'Date Format' (M/D/YYYY (Custom)), 'Time Format' (12 hr), 'Time Zone' (United States of America, New York (EDT -4:00), Daylight Savings: Automatic), and 'Language' (English). At the bottom left, there is a 'CONNECT' button with a refresh icon, and at the bottom right, there is a 'VIEW ALL' button.

Advanced Settings

In the Advanced tab, you can change the default:

Pressure Column Parameter

Use the dropdown to select the default pressure parameter that is displayed.

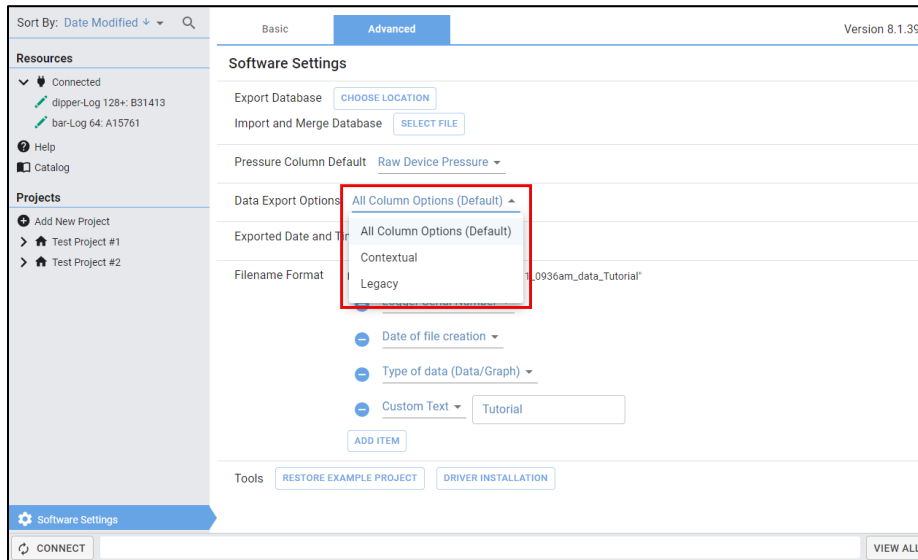


The screenshot displays the Heron Instruments software interface. On the left, a sidebar contains a search bar, a 'Sort By: Name' dropdown, and sections for 'Resources' (listing 'Connected' devices like 'dipper-Log 128+: B31413' and 'bar-Log 64: A15761') and 'Projects' (listing 'Test Project #1' and 'Test Project #2'). The main area is titled 'Software Settings' and has two tabs: 'Basic' and 'Advanced' (which is selected). The 'Advanced' tab shows settings for 'Export Database' (with a 'CHOOSE LOCATION' button), 'Import and Merge Database' (with a 'SELECT FILE' button), 'Pressure Column Default' (a dropdown menu), 'Data Export Options' (a dropdown menu), 'Exported Date and Time', and 'Filename Format' (with an example '9-11_0844am_data'). The 'Pressure Column Default' dropdown menu is open, showing options: 'Raw Device Pressure' (selected), 'Depth Submerged', 'Distance to Water', and 'Depth of Water'. Below these are three more dropdown menus: 'Logger Serial Number', 'Date of file creation', and 'Type of data (Data/Graph)'. At the bottom of the settings area is an 'ADD ITEM' button. Below the settings area are two buttons: 'RESTORE EXAMPLE PROJECT' and 'DRIVER INSTALLATION'. At the very bottom of the interface is a 'CONNECT' button and a 'VIEW ALL' button.

Data Export Mode

There are 3 options for how your data is exported:

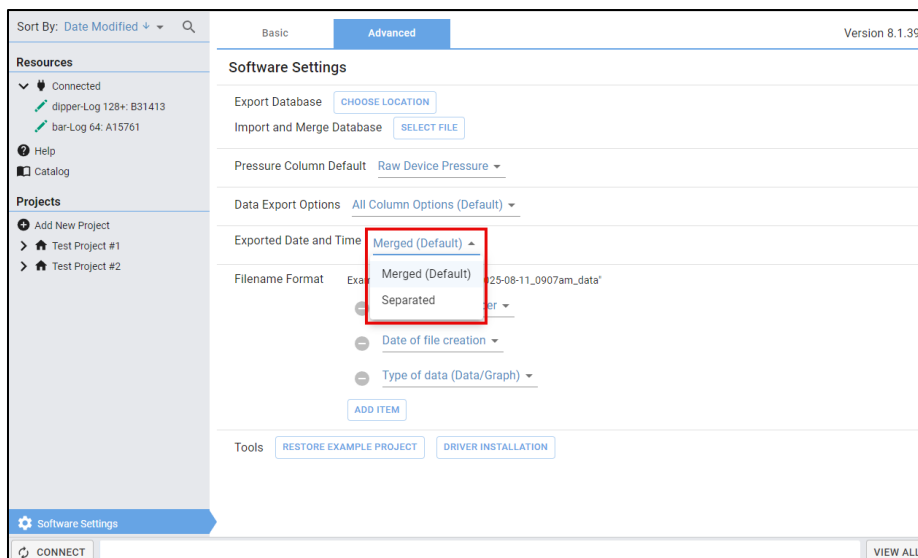
- All Column Options (Default): Exports the data chart with additional columns for all dropdown options. E.g. the exported chart would include a column for all the pressure parameters (Total Pressure, Depth Submerged, Distance to Water, and Depth of Water).
- Contextual: Exports the chart with only the selected dropdown parameter.
- Legacy: Exports the data in the same format as the old software.



Exported Date and Time Format

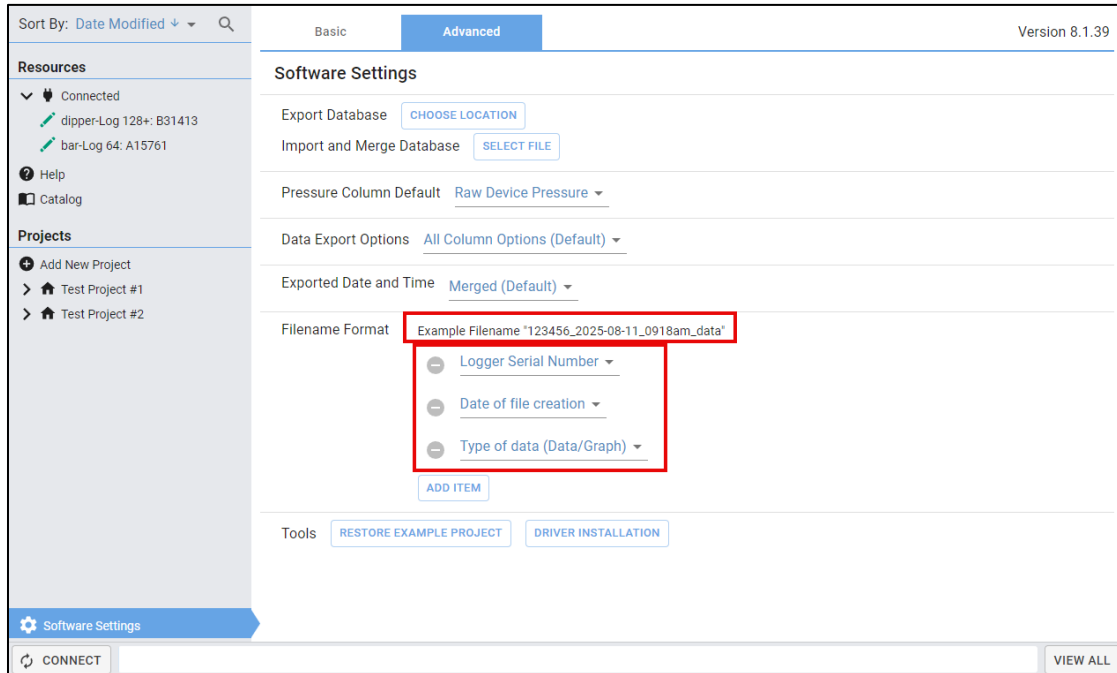
There are 2 options for how the date and time are exported:

- Merged (Default): The date and time are combined and displayed in a single column.
- Separated: The date and time are split and displayed in two different columns.



Changing the Default Filename Format

The default filename format is fully customizable. Use the dropdown arrows to select different items you want to include in the file name. The items will be displayed in the order you have selected them, separated by an underscore. The *Example Filename* is a preview line that will update as you make changes.



Add items using the *ADD ITEM* button and remove items by clicking on the (-) button. Note that a minimum of three items is required. To add custom text to the filename, click on the desired item dropdown and select *Custom Text*. In the field box type your desired text.

