

Win-Situ® Baro Merge™

Description

Baro Merge can post-correct absolute (non-vented) level sensor data to eliminate barometric pressure from the measurements. Baro Merge provides 3 options:

- Fixed Correction – A single offset value is applied to all selected log data. Use this option if you know what the barometric pressure was during the log, and it did not change
- Manual Entry – Specify 2 or more correction values to apply to the log data. Use this option if you know that barometric pressure changed during the log
- BaroTROLL log file – Absolute level sensor data are corrected by barometric pressure values logged by an In-Situ BaroTROLL during the same general time period

Input

In the Fixed Correction and Manual Entry options, it is important to know the barometric pressure for the general time period covered by the log or logs you want to correct.

Baro Merge uses a Wizard-like interface consisting of three main steps:

1. First, choose the type of compensation/correction you wish to use
2. Then, choose the absolute (non-vented) log file or files you wish to correct
3. Click OK and the barometric compensation is applied

Output

Your original log file is not changed. A new, corrected log file with the same name and path is created. The original ".wsl" extension is replaced by "-Baro Merge.wsl".

For more detailed information on barometric compensation see the tech notes on the In-Situ software/ resource CD, or in the Downloads section of the In-Situ website at www.In-Situ.com



Fixed Correction

A single correction is applied to all values in the log.

You will need—

- Barometric pressure from a reliable source—a single value that represents the actual ambient barometric pressure during the time period of the log
- The name(s) of the log file(s) you want to correct

Procedure

1. Launch Baro Merge. Select the option **Apply a fixed correction.**
2. Key in the correction factor, select the unit, and click Next . For example, if ambient barometric pressure was 22.5 inches of mercury during the log, enter 22.5 and select "inHg" as the unit.
3. Select the log file(s) to which the correction will be applied and click OK .
4. Baro Merge applies the correction to the selected log file(s). A progress bar shows when processing is complete.
5. Compensated data files may be viewed or exported from the My Data tab in Win-Situ.




Manual Entry

This is potentially a more accurate way to apply barometric compensation to a log file containing absolute data. Select this method when you have barometric data from a reliable source that indicates the barometric pressure changed during the time period of the log or logs you wish to correct.

You will need—

- Barometric pressure from a reliable source covering the time period of the log
- The name(s) of the log file(s) you want to correct

Procedure

1. Launch Baro Merge. Select the option **Enter one or more values manually**, then click Next .
2. In the next window, build a table containing at least 2 barometric pressure values, with time stamps, select any other options you want, and click Next .
3. In the next window, select the log file(s) to which the correction will be applied and click OK .
4. Baro Merge applies the correction to the selected log file(s). A progress bar shows when processing is complete.
5. Compensated data files may be viewed or exported from the My Data tab in Win-Situ.





Using a BaroTROLL File

Log files containing absolute data may be barometrically compensated using values logged by an In-Situ BaroTROLL. Select this method when you have access to a BaroTROLL log file covering approximately the same time period as the file to be corrected.

You will need—

- The name of the BaroTROLL log file
- The name(s) of the absolute log file(s) you want to correct

Procedure

1. Launch Baro Merge. Select the option **Use a BaroTROLL file**.
2. Click the ... button, select the BaroTROLL log file, and click OK . All BaroTROLL log files in your Win-Situ working directory are displayed. Only one file may be selected.
3. In the Baro Merge main window, click Next .
4. Values from the BaroTROLL file will be displayed in the next window. You can edit these values if you like. Click Next  when ready.
5. In the next window, select the log file(s) to which the correction will be applied and click OK .
6. Baro Merge applies the correction to the selected log file(s). A progress bar shows when processing is complete.
7. Compensated data files may be viewed or exported from the My Data tab in Win-Situ.