

prepDATA2

User Manual

Version 1.3

2025-11-12



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1. Getting Started

Please be aware that the prepDATA 2.0 is only compatible with prepASH 2.0. Previous prepASH models are not compatible and need the previous prepDATA version (available on www.precisa.com).

prepDATA2 is designed for Windows 7 / 8 / 10 and Windows 11, all with 32-bit or 64-bit support.

The software prepDATA enables comprehensive data analysis of your results.

1.1 Overview

prepDATA offers the following functions:

- Search and filter data from prepASH or drive
- Customize visualizations using docking windows
- Monitor the analysis process in real time
- Define additional results and statistics groups
- Export data to an Excel file. Microsoft Excel does not need to be installed
- Create custom reports
- Create and edit sample lists
- Create a weighingin lists with the prepSTATION

1.2 Installation

1. Unzip the file (e.g. setup_prepDATA2_V1_0_4.zip)
2. Run the file (e.g. setup_prepDATA2_V1_0_4.exe)
3. Follow the on-screen instructions

1.3 Uninstallation



Type “Uninstall prepDATA2” into the Windows search bar and press Enter key.

1.4 Start the Application

Type “prepDATA2” into the Windows search bar and press Enter key or double-clicking the prepDATA2 desktop icon to start the application.

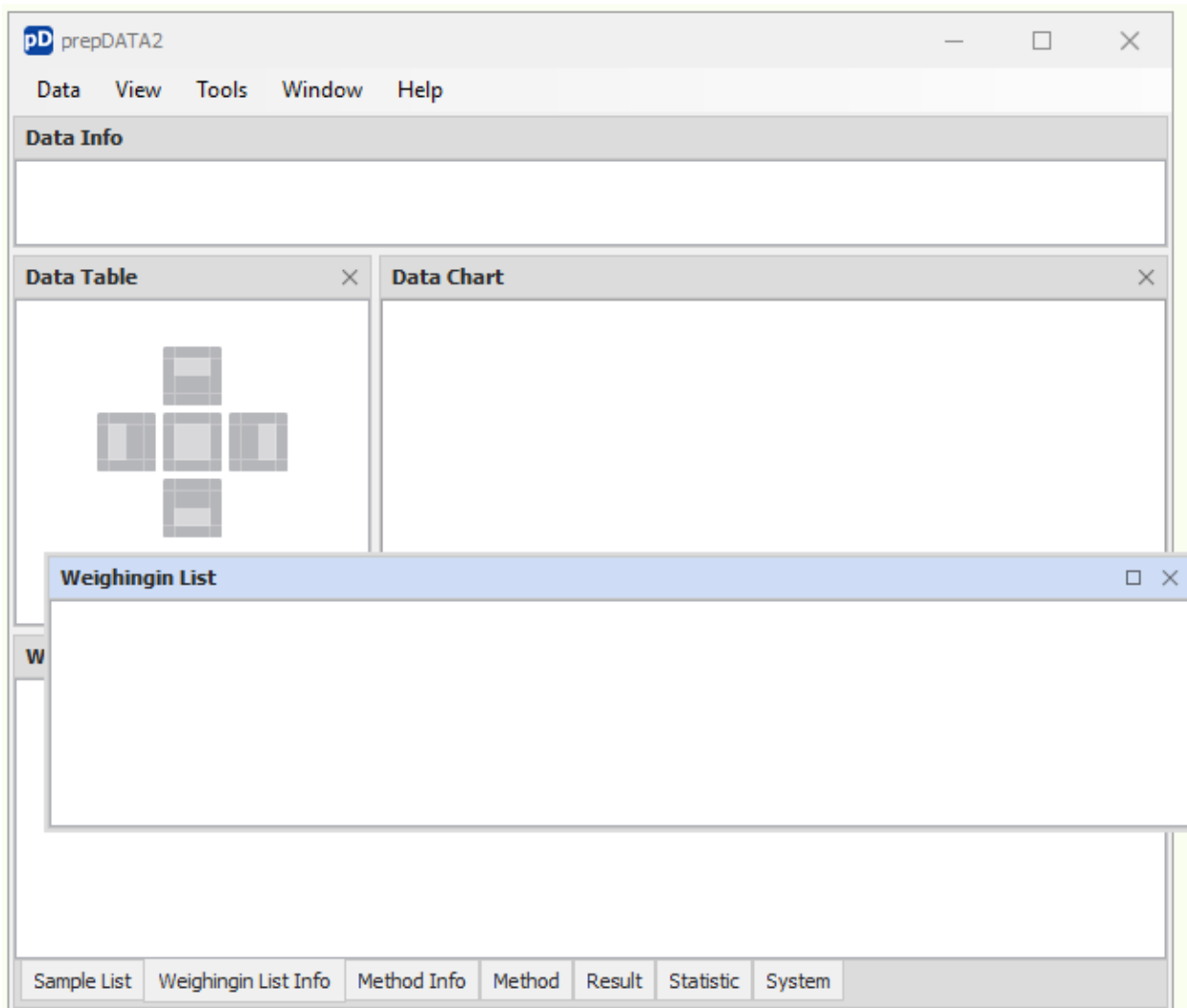


2. Main Window

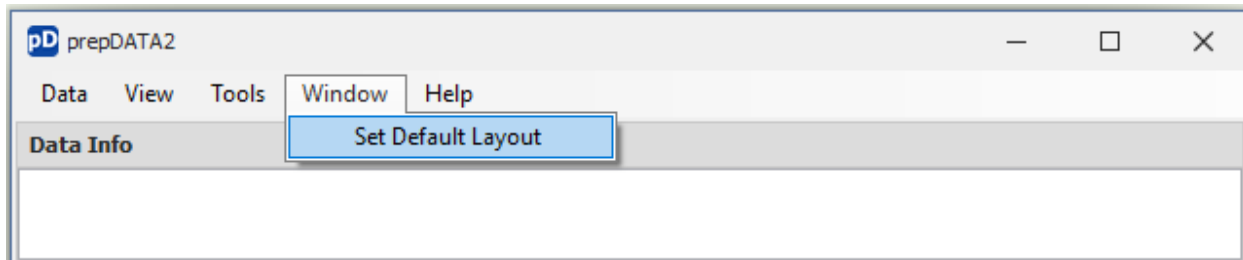
When the application starts, the window prepDATA2 is displayed.

2.1 Docking and Layout

The application allows you to organize and group the dock panels freely by dragging and dropping them, enabling a customized workspace layout.

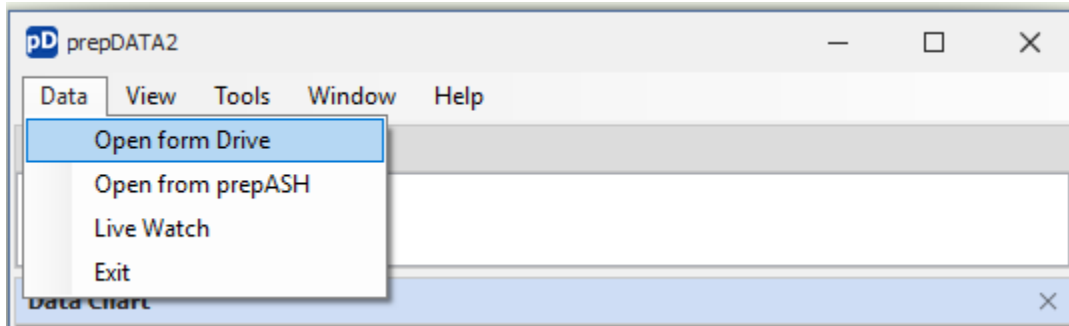


In the Window menu, click **Set Default Layout** to restore the default view.



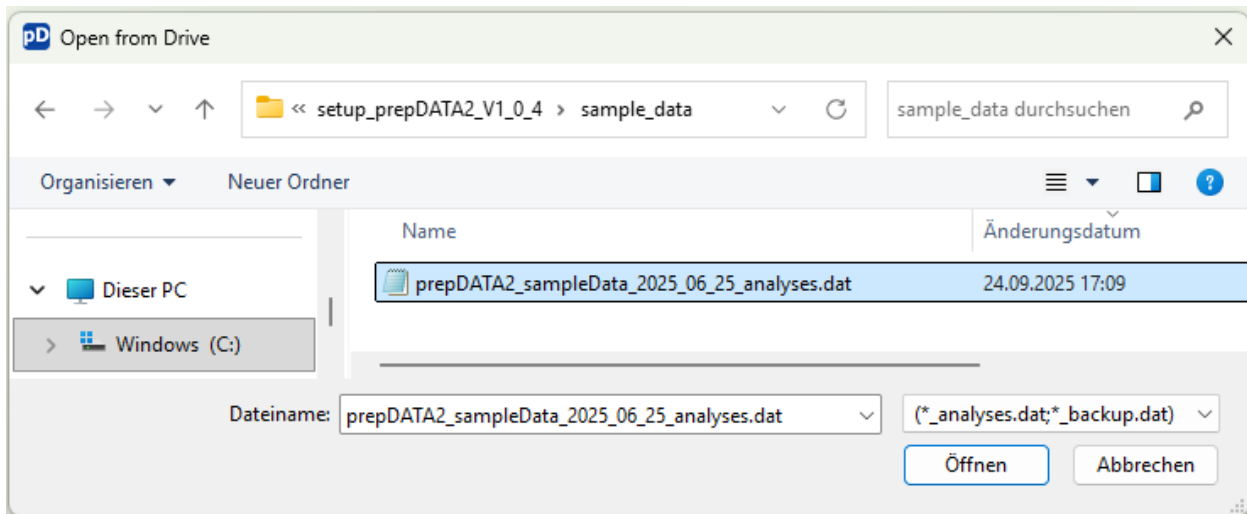
3. Open Data from Drive

To open data from the drive, navigate to the **Data** menu and select **Open from Drive**.



3.1 Select File

In the Open from Drive window, select a file with the extension *_analyses.dat* or *_backup.dat*, and then click **Open**. The Select Data windows opens.

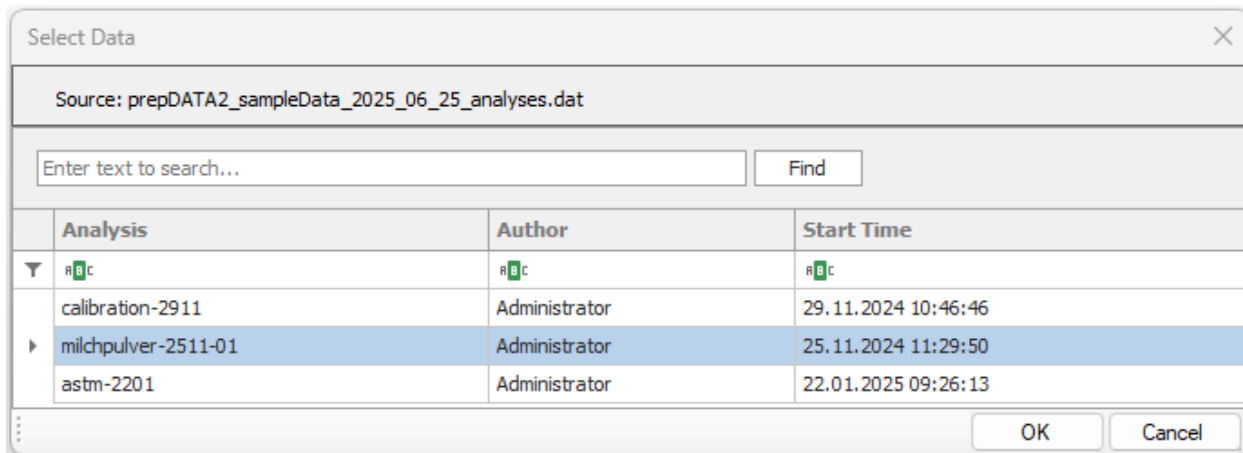


Hint

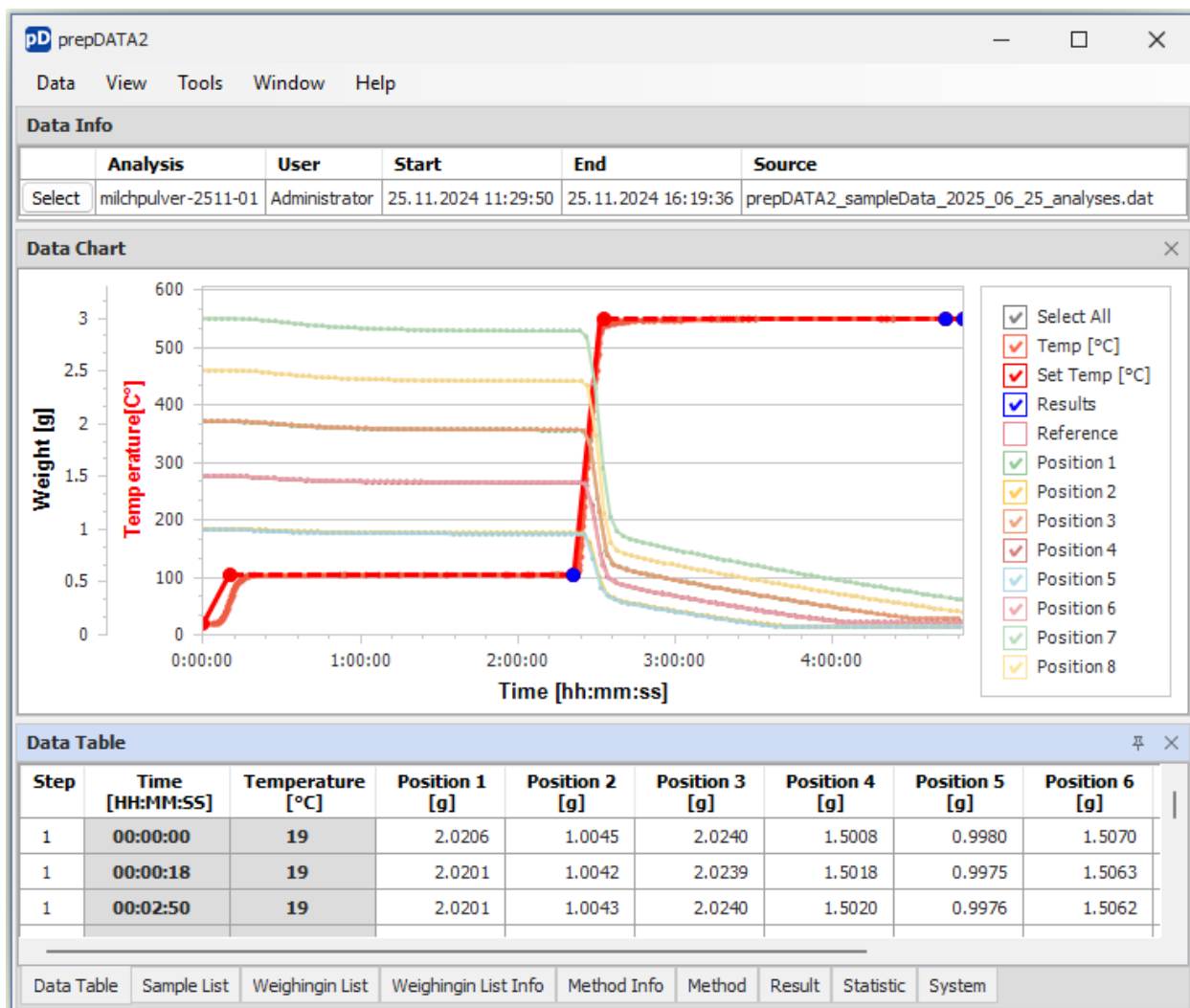
The installer package (e.g. *setup_prepDATA2_V1_0_4.zip*) contains a sample data file, located in the sample data folder.

3.2 Select Data

In the Select Data window, select an analysis and click **OK**.

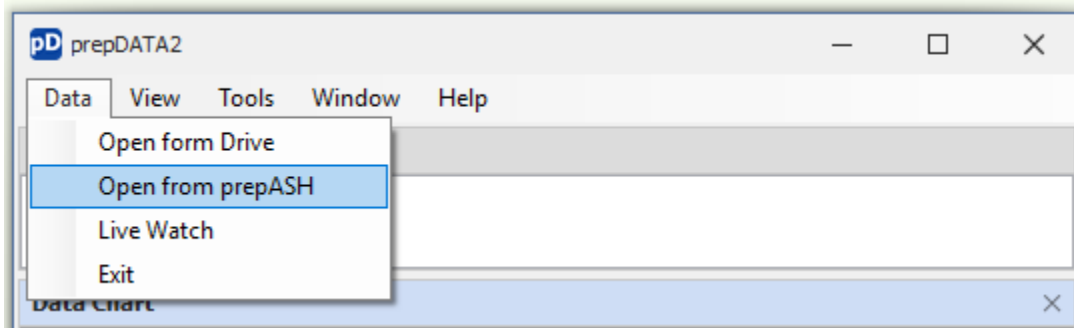


The selected analysis is now displayed.



4. Open Data from prepASH

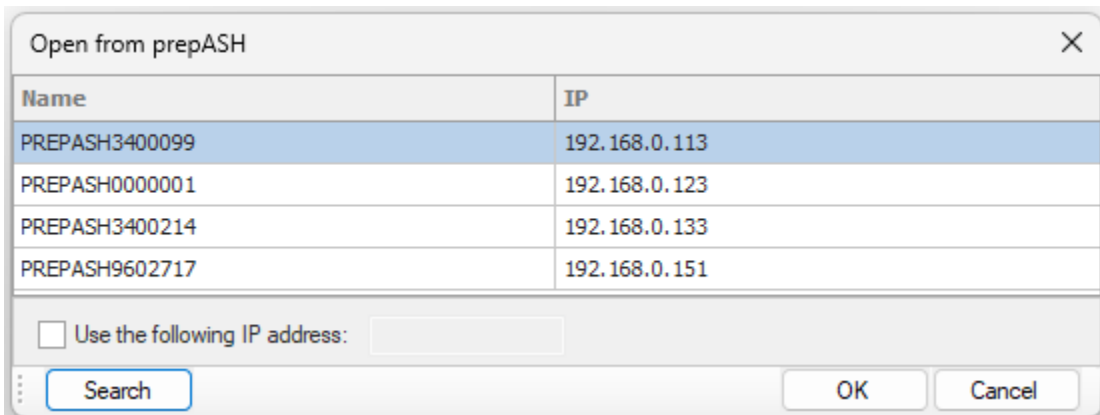
To open data from prepASH, go to the **Data** menu and select **Open from prepASH**.



The window Open from prepASH is displayed.

4.1 Select prepASH

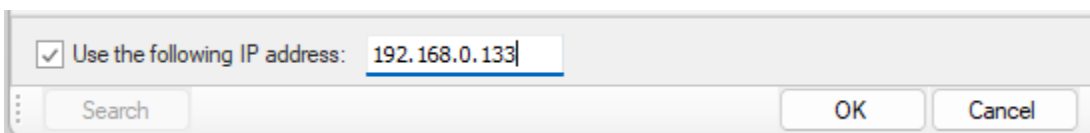
In the window Open from prepASH click the **Search** button to refresh the list of available prepASH devices. Then select a prepASH device and click the **OK** button.



Hint

To use the search function, the PC and prepASH device must be on the same subnet. If you encounter network issues, please contact your administrator.

If the prepASH device is not on the same subnet, you can select the **Use the following IP address** option and manually enter the device's IP address.



4.2 Select Data

After selecting a prepASH device, a list of all available analyses is displayed.

Select Data

Source: PREPASH0000007

×
Find

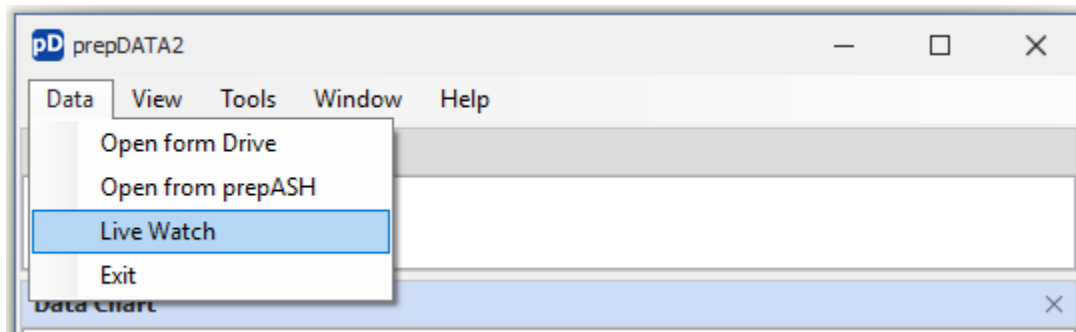
	Analysis	Author
▼	REC	REC
	astm-0212	Administrator
	astm-1102-02	Administrator
	astm-2201	Administrator

Use the “**Enter text to search...**” field to filter data across all columns, or apply filters directly under the column headers.

Select the desired analysis and click **OK** to open it.

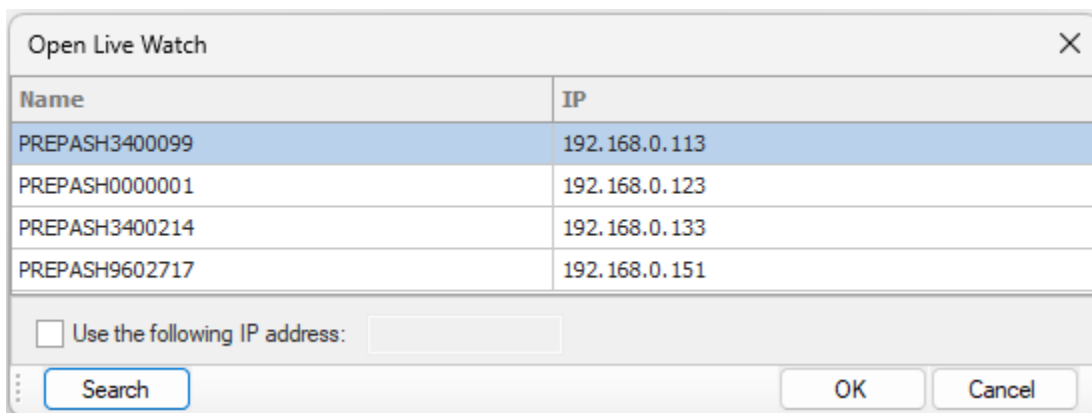
5. Live Watch

To open Live Watch, navigate to the **Data** menu and select **Live Watch**.



The window Open Live Watch opens.

Select a prepASH device and click **OK**.



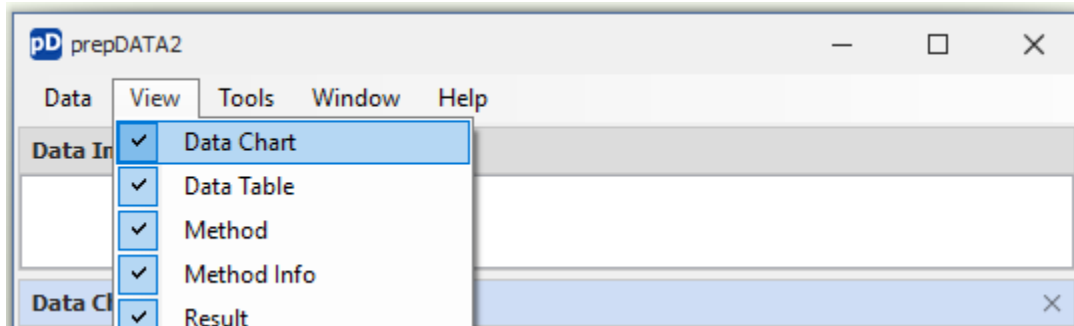
The Data Info, Data Table, and Data Chart are updated continuously.

Data Info					
	Source	Last Update	Cover	State	Temperature
LIVE ●	PREPASH0000007	17.07.2024 12:17:12	open	idle	25 °C

The Last update field shows when the data was last updated.

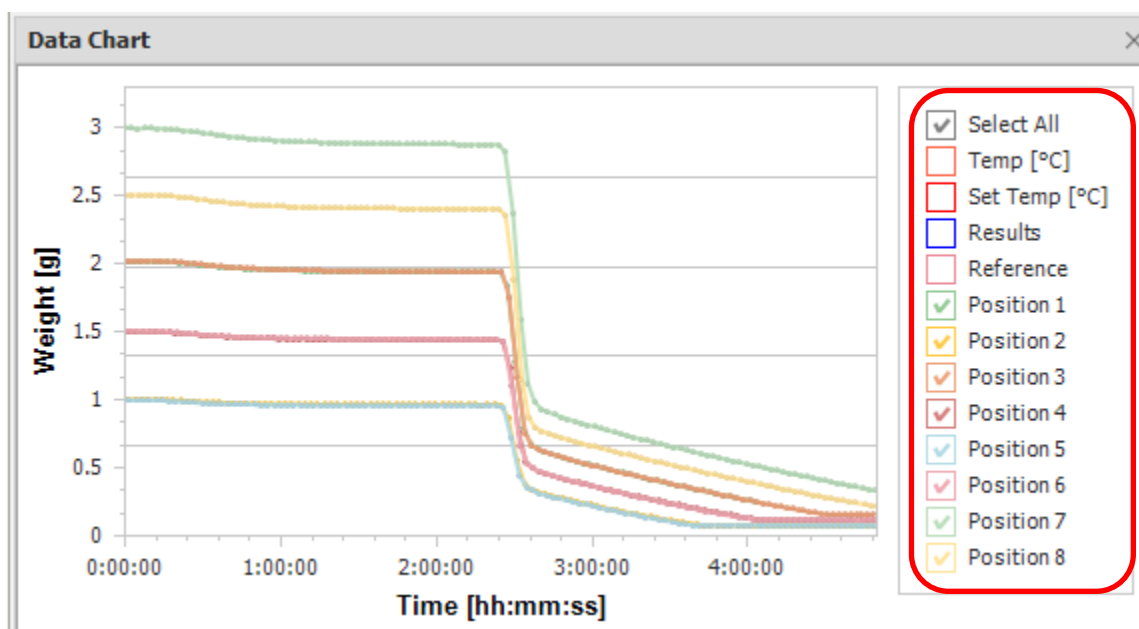
6. Chart

Ensure the Data Chart panel is visible by selecting **Data Chart** from the **View** menu.



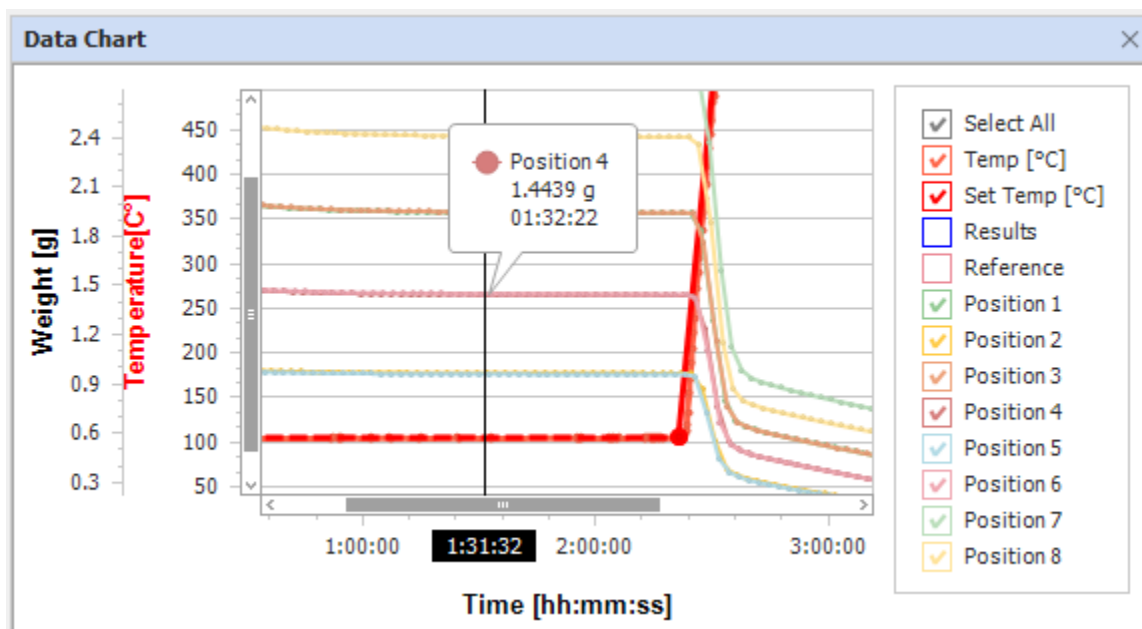
6.1 Select Samples

In the chart legend on the right side of the chart, select or deselect samples by checking the corresponding checkboxes.



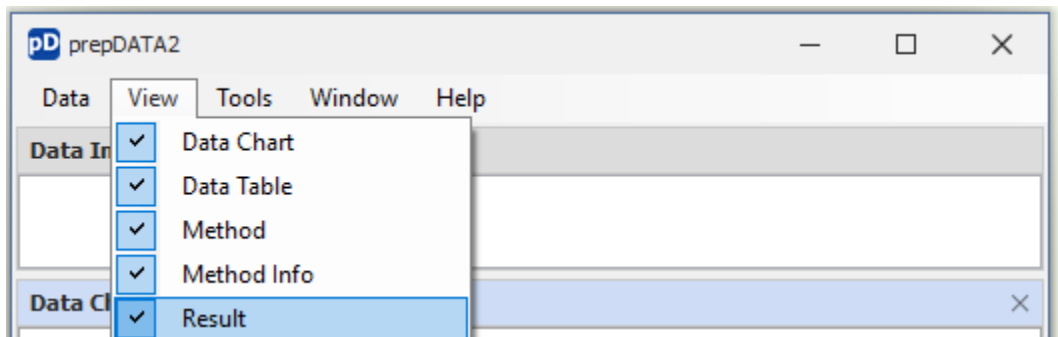
6.2 Zoom and Scroll

Press and hold the *Shift* key, then drag to select the area you want to zoom in on. Alternatively, you can zoom using the mouse scroll wheel. To scroll, click and drag within the diagram.



7. Result

Ensure the Result panel is visible by selecting **Result** from the **View** menu.



7.1 Result Editor

Click on the Result tab to display the result panel.

Result						
Method	Result Name	Calculation Mode	Unit	Step	Relative to	Calculation
<input checked="" type="checkbox"/>	R1	rest	%	2	initial	
<input checked="" type="checkbox"/>	R2	rest	%	4	W2	
<input checked="" type="checkbox"/>	R3	free	%		initial	(W4/W2)
Additional	Result Name	Calculation Mode	Unit	Step	Relative to	Calculation
<input checked="" type="checkbox"/>	LossInitialg	loss	g	2	initial	
<input checked="" type="checkbox"/>	freeResult	free	g			I-W2
Data Table	Sample List	Weighingin List	Weighingin List Info	Method Info	Method	Result
					Statistic	System

On the left side of the Result panel, select results by clicking the checkboxes.

Method results are displayed in the upper table, while additional results appear in the lower table. To add additional results, fill in the table cells in the lower table and select the Additional checkboxes.

Select the Free calculation mode if you want to define custom result calculations by entering the corresponding formula in the calculation field.

The following parameters are available:

I Initial Value

C Current Value

Wn Step Value, where n is a number from 1 to 15

The following basic arithmetic operations are available for the calculation field.

“+” Addition

“-” Subtraction

“*” Multiplication

“/” Division

Example formula: $C / I * 1000$

7.2 Result Table

On the right side of the Result panel, the result table is displayed.

	Pos.	Sample	ID	Tare[g]	Initial[g]	CW	AS	Result Name	R
✓	1	S		23.6412	1.7885	✓	✓	R1 R2 R3	
✓	2	S		23.6810	1.7289	✗	✓	R1 R2 R3	

The first column shows whether the sample was active (✓) or not (✗).

The CW column indicates whether the checkweigher was in range (✓) or not (✗).

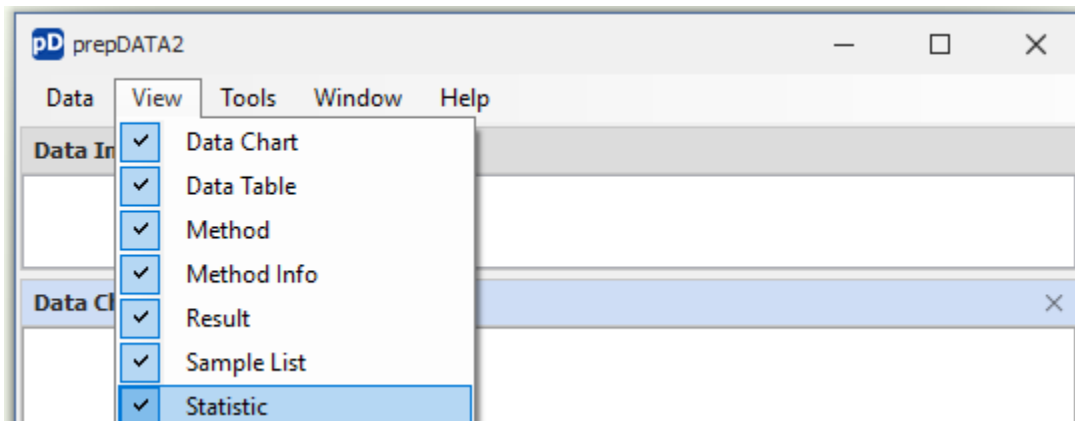
The AS column indicates whether autostop was reached (✓) or not (✗).

The **Calculation** field displays the formula used for each result.

ne	Residue[g]	Time	Result	Unit	Rel. to	Calculation
:00:00	0.9228	01:49:12	7.609	%	initial	(I-D)/I*100
:00:00	0.5203	02:34:30	40.551	%	initial	(D-V)/I*100*X
:00:00	0.0632	05:18:51	6.328	%	initial	A/I*100
			45.512	%		100-(I-D)/I*100-(D-V)/I*100*X-A/I*100
:00:00	0.9852	00:46:27	1.174	%	initial	(I-D)/I*100
:00:00	0.7886	02:34:40	21.437	%	initial	(D-V)/I*100*X

8. Statistic

Ensure the Statistic panel is visible by selecting **Statistic** from the **View** menu.



8.1 Statistic Editor

To assign the samples to groups, enter the group name in the Group field.

Statistic				
	Pos.	Sample	ID	Group
X	1			
✓	2			A
✓	3			A
✓	4			B
✓	5			B
✓	6			A
✓	7			A
✓	8			B

For the values **Initial**, **Residue**, and **Result**, statistics are calculated by group

Group: A									
Result Name	Pos.	n		Initial		Residue		Result	
R1	2,3,6,7	4	mean std rstd	1.88378 0.85241 45.25014	g g %	1.80998 0.81678 45.12647	g g %	96.12275 0.12031 0.12516	% % %
R2	2,3,6,7	4	mean std rstd	1.88378 0.85241 45.25014	g g %	0.17970 0.12718 70.77287	g g %	9.26300 2.25936 24.39127	% % %
R3	2,3,6,7	4	mean std rstd					0.09250 0.02300 24.86486	% % %
Group: B									
Result Name	Pos.	n		Initial		Residue		Result	
R1	4,5,8	3	mean std rstd	1.66860 0.76837 46.04860	g g %	1.60267 0.73574 45.90748	g g %	96.08733 0.13220 0.13758	% % %
R2	4,5,8	3	mean std rstd	1.66860 0.76837 46.04860	g g %	0.14667 0.08695 59.28574	g g %	8.81400 1.17091 13.28465	% % %
R3	4,5,8	3	mean std rstd					0.08800 0.01212 13.77768	% % %

The following calculations are performed.

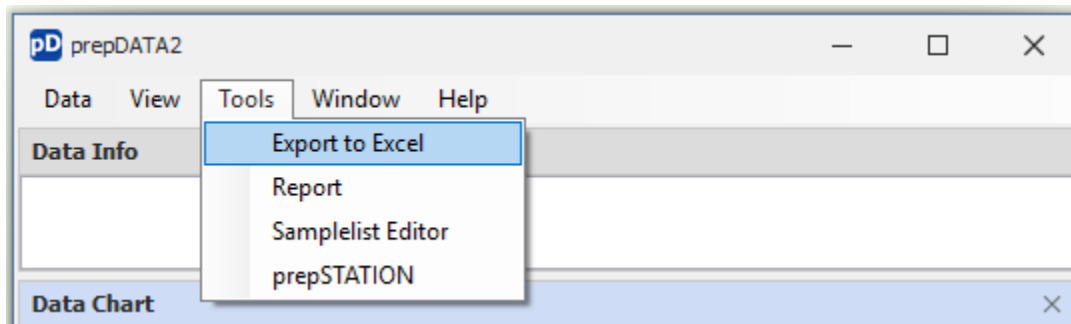
$$\text{mean: } \bar{x} = \frac{\sum_{i=1}^n x_i}{n}$$

$$\text{std: } s = \sqrt{\frac{1}{N-1} \sum_{i=1}^N (x_i - \bar{x})^2} \quad \text{Standard Deviation}$$

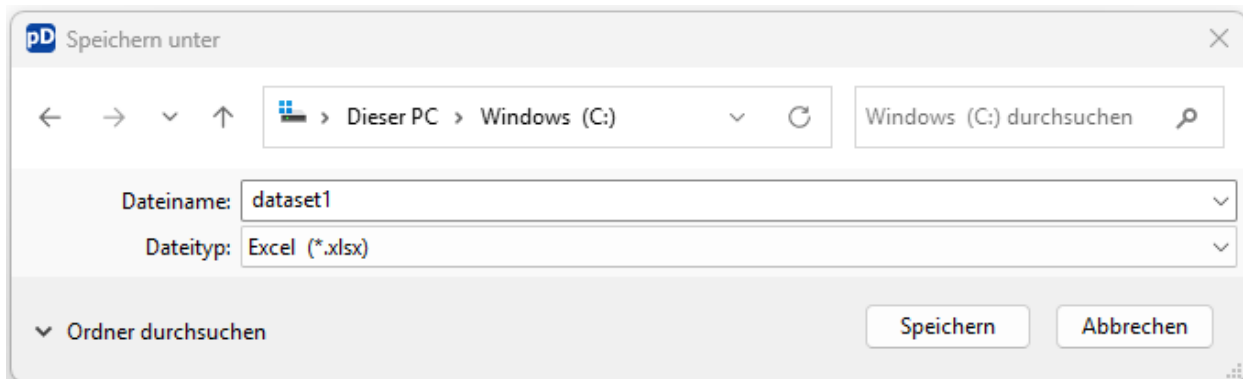
$$\text{rstd: } rstd = \frac{std}{\bar{x}} \cdot 100\% \quad \text{Relative Standard Deviation}$$

9. Export to Excel

To export data to excel, open the **Tools** menu and choose **Export to Excel**.



A file dialog opens. Select the file name and the folder where the export file should be saved, then click **Save**.

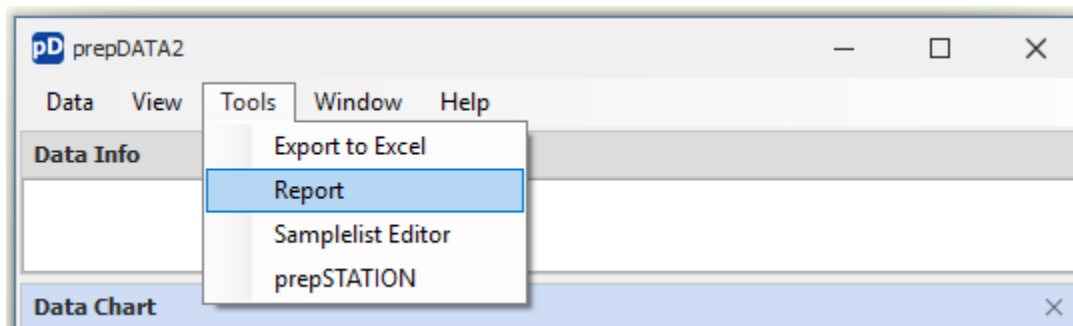


All tables are exported to the Excel file in the corresponding tabs.

	A	B	C	D	E	
1	Step	Time [HH:MM:SS]	Temperature [°C]	Reference [g]	Position 1 [g]	Position 2 [g]
2	1	00:00:00	19	20.1578	2.0206	1.0045
3	1	00:00:18	19	20.1587	2.0201	1.0042
4	1	00:02:50	19	20.1586	2.0201	1.0043
	< >	Data Info	<u>Data</u>	Samplelist Info	Samplelist	Weighinglist

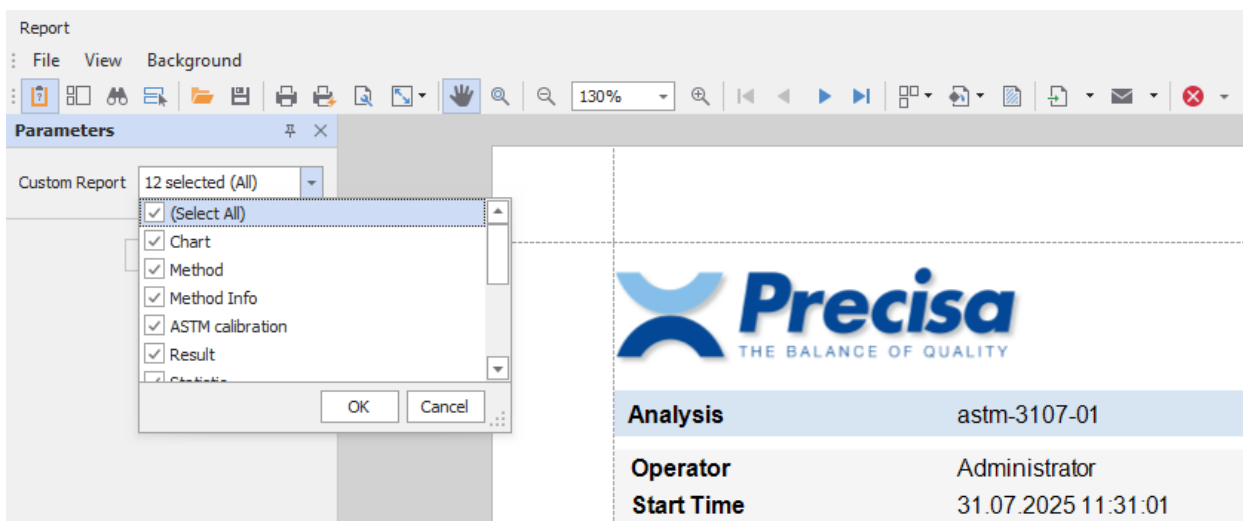
10. Report

To create a report, open the **Tools** menu and choose **Report**.

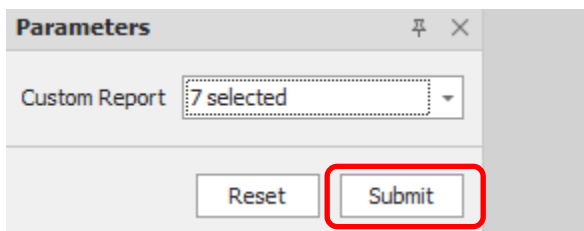


A Report Window opens where you can customize the report.

Open the **Custom Report** dropdown menu and select the desired sections by checking the checkboxes.

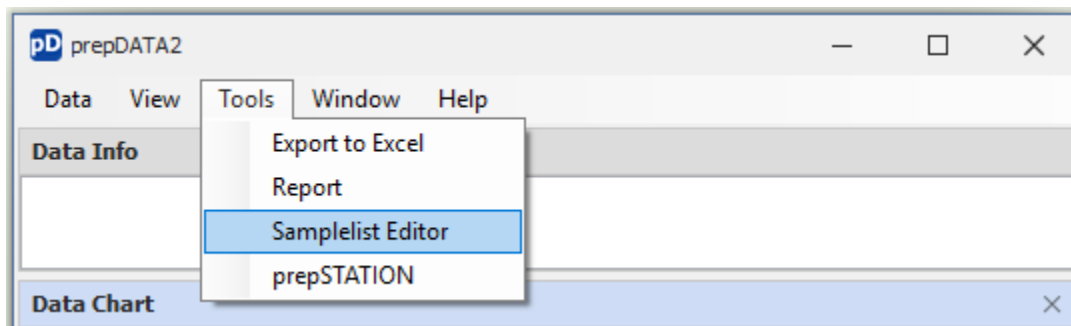


Click **Submit** to apply the changes.



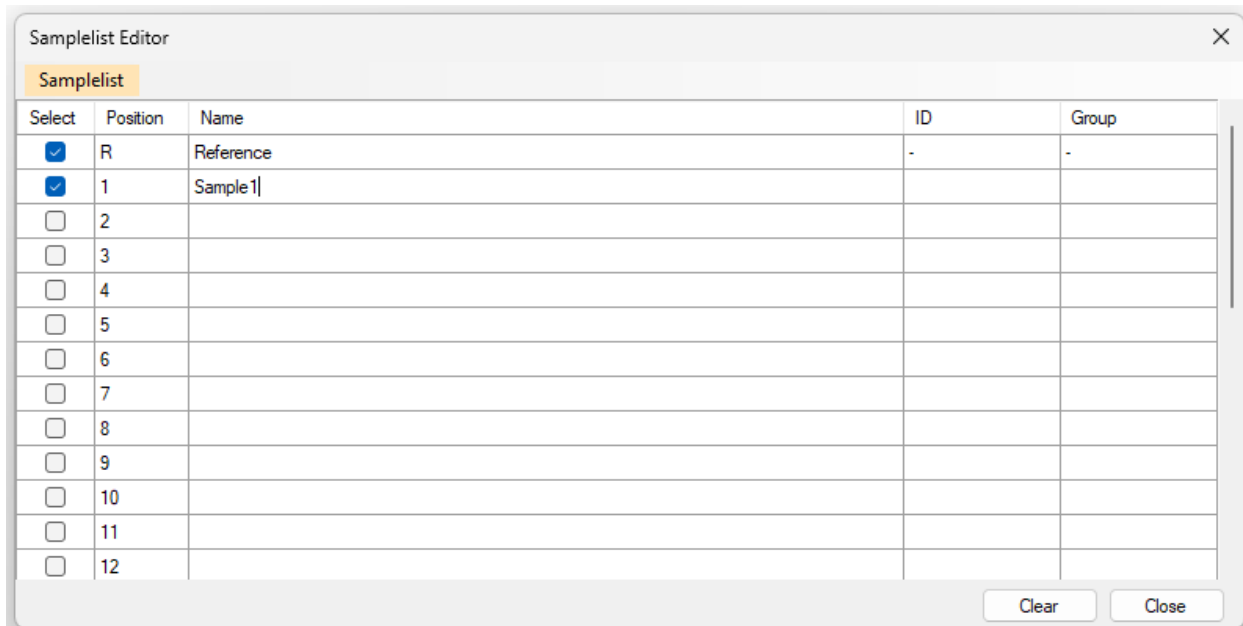
11. Samplelist Editor

To create a sample list, open the **Tools** menu and choose **Samplelist Editor**.



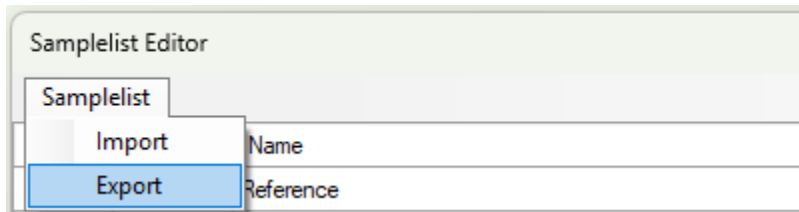
11.1 Create new Samplelist

Create a new sample list by editing the table. Use the **Select** checkboxes to include or exclude each entry. To reset the table, click **Clear**.

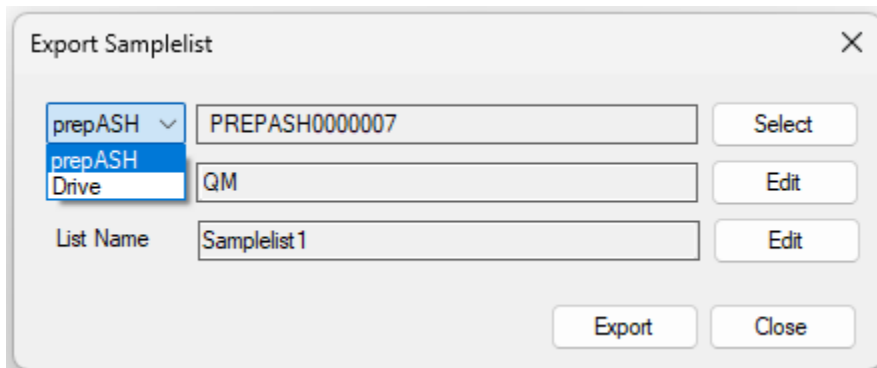


11.2 Export Samplelist

To export a sample list, open the **Samplelist** menu and select **Export**.

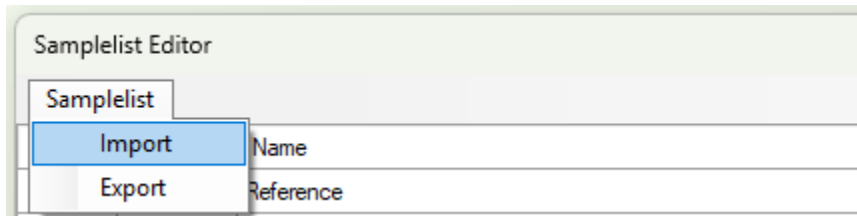


1. Use the drop-down menu to select prepASH or drive.
2. Click the **Select** to choose a prepASH device or a file.
3. Click the **Edit** to set the author.
4. Click the **Edit** to set the list name.
5. Click the **Export** to export the sample list.

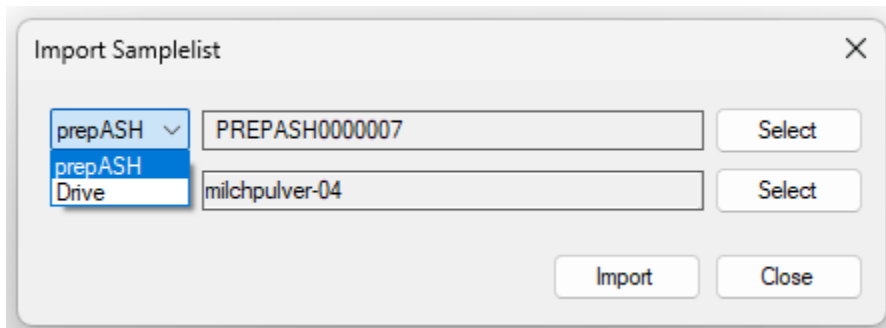


11.3 Import Samplelist

To import a sample list, open the **Samplelist** menu and select **Import**.

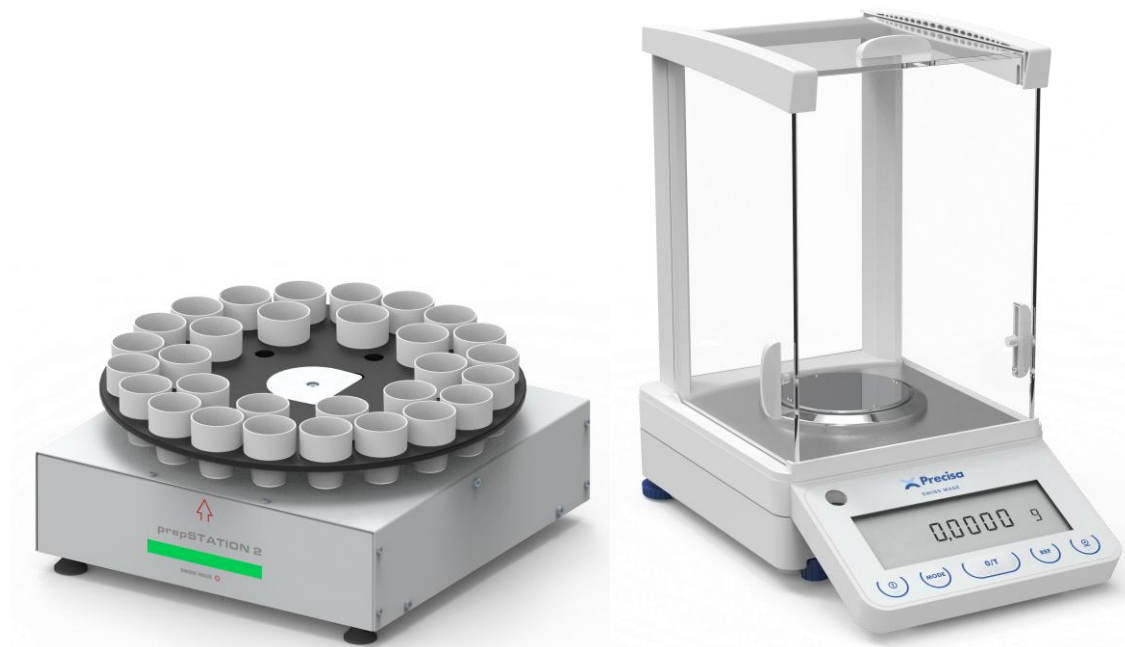


1. Use the drop-down menu to select prepASH or Drive.
2. Click the **Select** to choose a prepASH device or a file.
3. Click the **Select** to choose a sample list.
4. Click the **Import** to import the sample list.

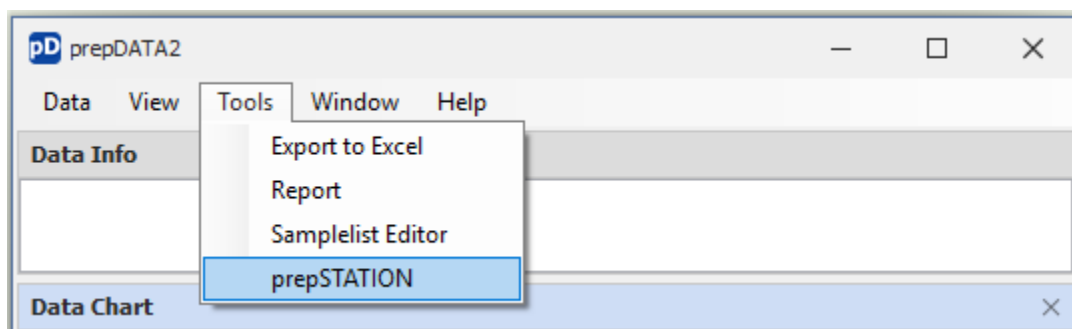


12. prepSTATION 2.0

To create a weighing-in list, the prepSTATION 2.0 (order no. 340-9011) is required, which consists of the rotary unit and a PB 120A analytical balance.



To create a weighingin list, open the **Tools** menu and choose **prepSTATION**.



The prepSTATION window is displayed.

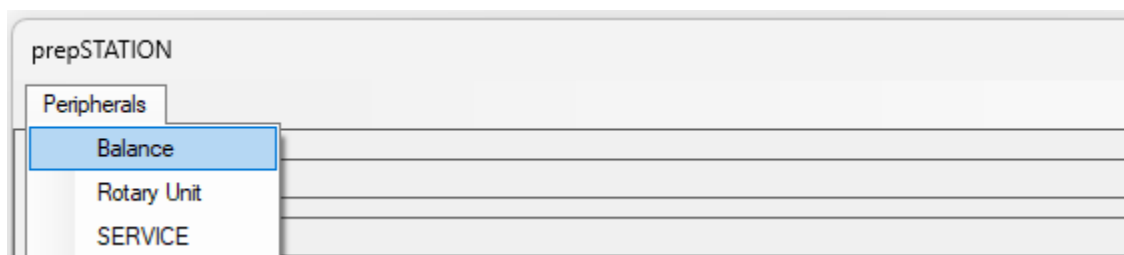
The screenshot shows the 'prepSTATION' window with the 'Peripherals' tab selected. The window contains several input fields and buttons:

- PrepASH**: A text input field followed by a 'Disc' dropdown menu and a 'Select' button.
- Samplelist**: A text input field followed by a 'Select' button.
- Weighinglist**: A text input field followed by an 'Edit' button.
- User**: A text input field followed by a 'Select' button.
- Method**: A text input field followed by a 'Select' button.
- Instruction:** A label with 'Save' and 'Start' buttons to its right.
- Table**: A table with columns: Pos., Group, Sample, ID, Tare [g], Net [g], and CW. The table is currently empty.
- Close**: A button in the bottom right corner.

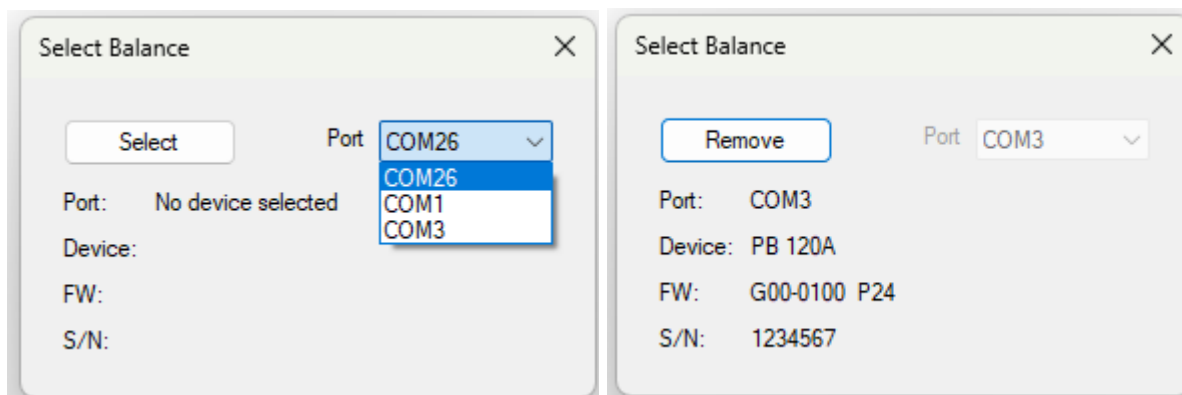
When using the prepSTATION for the first time, you need to set up the peripherals.

12.1 Setup the Balance

Open the **Peripherals** menu and select **Balance**.



The Select Balance window is displayed.



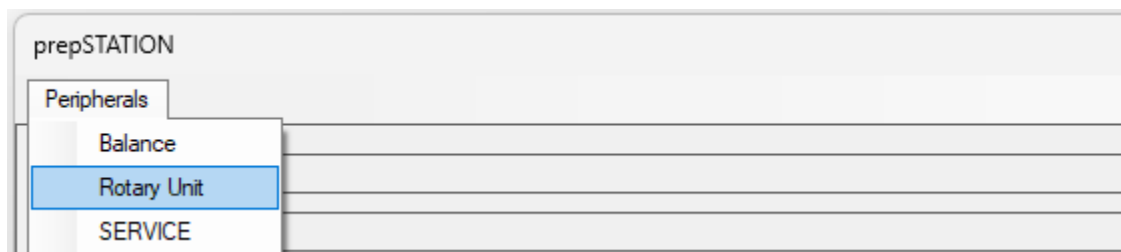
Connect the balance to the PC using a USB cable. Then select the COM port and click **Select**. If the device is detected and ready for use, the firmware version and serial number are displayed. Close the window by clicking the **X** icon.

Hint

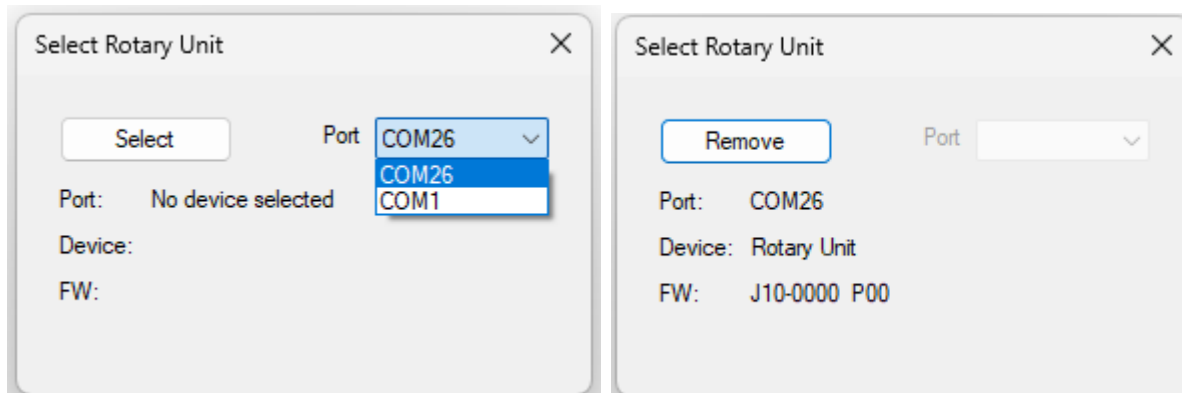
The serial port of the balance must be configured to **9600 baud, 8 data bits, no parity**.

12.2 Setup the Rotary Unit

Open the **Peripherals** menu and select **Rotary Unit**.



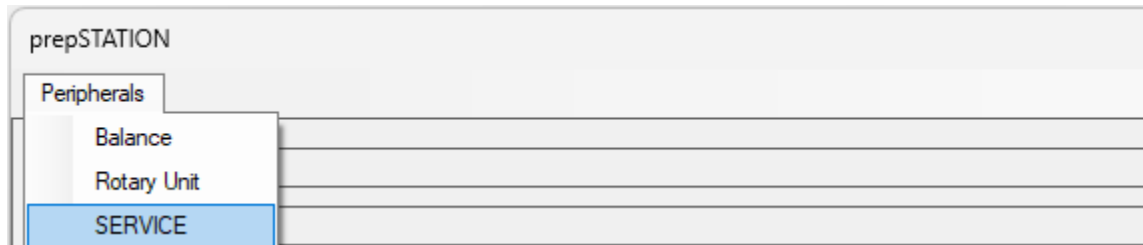
The Select Rotary Unit window is displayed.



Connect the rotary unit to the PC using the USB cable. Then select the COM port and click **Select**. If the device is detected and ready for use, the firmware version will be displayed. Close the window by clicking the **X** icon.

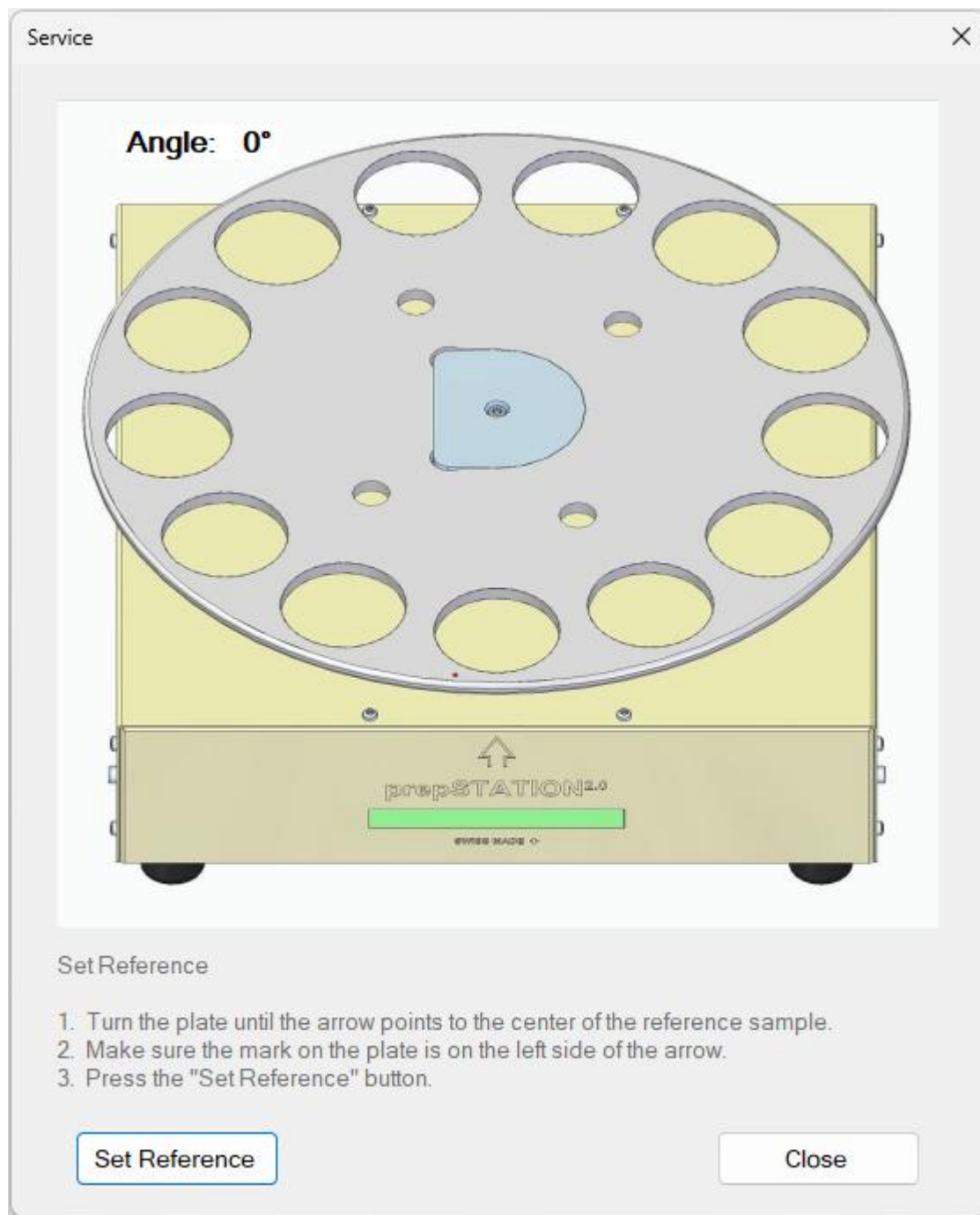
12.3 Adjusting the Rotary Unit

Open the **Peripherals** menu and select **SERVICE**.



The Service window is displayed.

To adjust the reference position, follow the procedure described in the “**Set Reference**” section.



12.4 Weighing-in

1. Click **Select** to choose a prepASH to start.

prepSTATION

Peripherals

PrepASH: PREPASH0000001 Sample plate: 29 **Select**

Sample list: Samplelist1 **Select**

Weighing-in list: Weighing-in list 1 **Edit**

User: Administrator **Select**

Method: checkweigher **Select**

Checkweigher: ☒ On Nominal: 10.5555 g Tolerance: 1 %

Save Start

Pos.	Group	Sample	ID	Tare [g]	Net [g]	CW
R	-	Reference	-			
1		Sample 1				

Close

The Select prepASH window is displayed. Select a prepASH device and click **OK**.

Select prepASH

Name	IP
PREPASH3400099	192.168.0.113
PREPASH0000001	192.168.0.123
PREPASH3400214	192.168.0.133
PREPASH9602717	192.168.0.151

☐ Use the following IP address:

Search OK Cancel

2. Click the drop-down field and select the sample plate.
3. Click **Select** to choose a sample list.
4. Click **Edit** to set the weighing list name.
5. Click **Select** to select the user.
6. Click **Select** to select the method.
7. Click **Start**.

Follow the on-screen instructions to perform the weighing.

prepSTATION

Peripherals

PrepASH: PREPASH0000001 Sample plate: 29 Select

Sample list: Samplelist1 Select

Weighing-in list: Weighing-in list 1 Edit

User: Administrator Select

Method: checkweigher Select

Checkweigher: ☒ On Nominal: 10.5555 g Tolerance: 1 %

Rotate plate to position <R>. Save Abort

Pos.	Group	Sample	ID	Tare [g]	Net [g]	CW
R	-	Reference	-			
1		Sample 1				

Close

When all samples have been weighed, click **Save** to store the data on the prepASH.

prepSTATION

Peripherals

PrepASH: PREPASH0000001 Sample plate: 29 Select

Sample list: Samplelist1 Select

Weighing-in list: Weighing-in list 1 Edit

User: Administrator Select

Method: checkweigher Select

Checkweigher: ☒ On Nominal: 10.5555 g Tolerance: 1 %

Weighing complete. Save Abort

Pos.	Group	Sample	ID	Tare [g]	Net [g]	CW
R	-	Reference	-	15.7113	15.7113	
1		Sample 1		15.7109	10.4928	✓

Close