

prepDATA2

User Manual

Version 1.2

2025-06-12

Table of Contents

1. INTRODUCTION	3
1.1 Overview	3
2. GETTING STARTED	4
2.1 Installation.....	4
2.2 Start the Application	4
2.3 Uninstall the Application.....	4
3. OPEN DATA	4
3.1 Open Data from Drive.....	5
3.2 Open Data from prepASH	5
3.2.1 Select a prepASH	6
3.2.2 Select Data	6
3.2.3 Data Info.....	7
3.3 Live Watch	7
4. CHART.....	8
4.1 Zoom and Scroll	8
5. RESULT	9
5.1 Result Editor	9
5.2 Result Table	10
6. STATISTIC	11
6.1 Statistic Editor	11
6.2 Statistic Table.....	11
7. TOOLS.....	12
7.1 Export to Excel	12
7.2 Report	12

1. Introduction

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.

2. Getting Started

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

2.1 Installation

1. Start the installation by double-clicking "setup_prepDATA2.exe".
2. Follow the on-screen instructions.

2.2 Start the Application

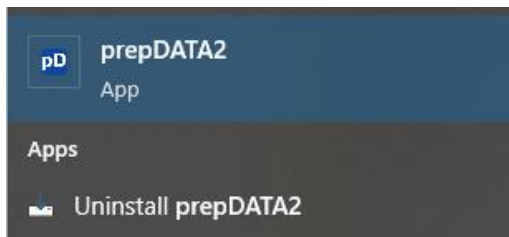


Start the program by double-clicking the desktop icon "prepDATA2".



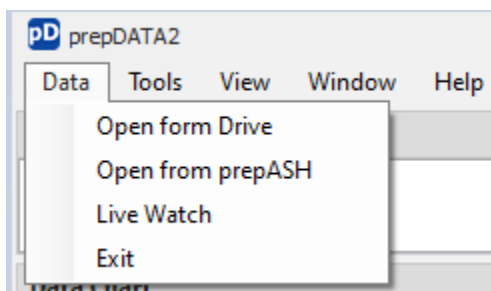
If no desktop icon was created, type "prepDATA2" into the Windows search bar and press the Enter key.

2.3 Uninstall the Application



Type "prepDATA2" into the Windows search bar and select "uninstall prepDATA2".

2.4 Open Data

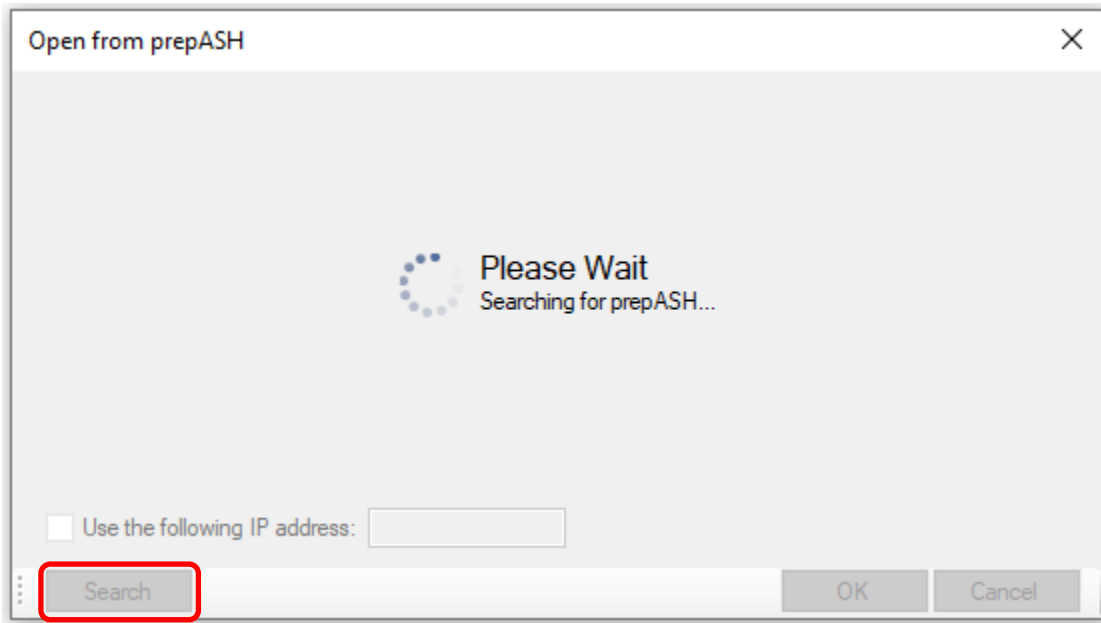


Choose one of the options in the "Data" menu to open a measurement.

2.4.1 Open Data from Drive

In the file dialog, select a file with the extension “_analyses.dat” or “_backup.dat” and click “Open”.

2.4.2 Open Data from prepASH



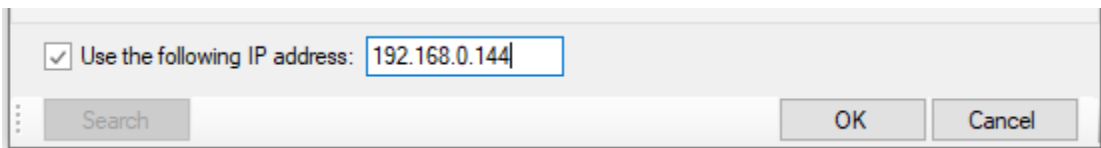
When you open data from a prepASH for the first time, you must localize the device by clicking “Search” to scan the network for connected prepASH devices.

Hint

To use the search function, the PC and prepASH must be in the same subnet. If you have problems with the network, please contact your administrator.

Alternative

If the prepASH device is not in the same subnet, you can check the “Use the following IP address” option and manually enter the prepASH device’s IP address.



2.4.3 Select a prepASH

Name	IP
PREPASH0000007	192.168.0.79
PREPASH3400454	192.168.0.93
PREPASH3400395	192.168.0.55
PREPASH0000000	192.168.0.102
PREPASH3400214	192.168.0.103
PREPASH0000001	192.168.0.110
PREPASH3400099	192.168.0.118

☐ Use the following IP address:

Search OK Cancel

The prepASH devices found on the network are listed. Confirm your selection by clicking “OK”.

2.4.4 Select Data

Select Data

Source: PREPASH0000007

Find

Analysis	Author
usvTest5	PRODUCTION
usvTest4	PRODUCTION

After selecting a prepASH device, a list of all available measurements will be displayed.

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

Finally, select a measurement and click “OK” to open the data.

2.4.5 Data Info

Data Info					
	Analysis	User	Start	End	Source
Select	milchpulver_004	Administrator	15.04.2024 14:06:35	15.04.2024 20:44:12	PREPASH0000007

Data information is displayed in the Data Info Panel.

Hint

To open a different measurement from the prepASH device, simply click “Select”.

2.5 Live Watch

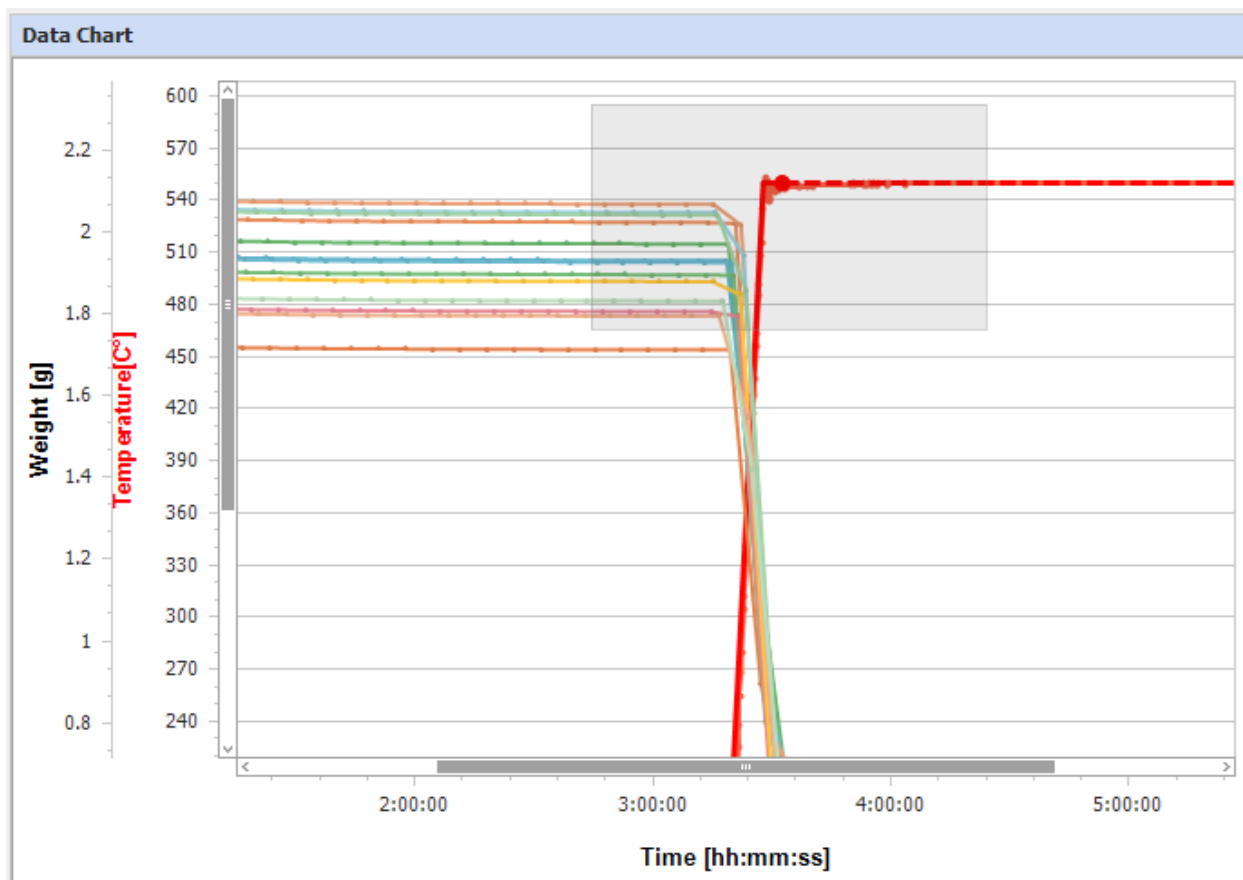
Select a prepASH device (Chapter 2.4.3) and click “OK”.

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 the time when the data was last updated.

3. Chart

3.1 Zoom and Scroll



Press and hold the Shift key on the keyboard, then select the area you want to zoom in on. Alternatively, you can use the mouse scroll wheel. To scroll, click and drag an area of the diagram with the mouse.

4. Result

4.1 Result Editor

Result						
Method	Step	Result Name	Calculation Mode	Unit	Relative to	Calculation
☒	2	R1	rest	%	initial	
☒	4	R2	rest	%	S2	
Additional	Step	Result Name	Calculation Mode	Unit	Relative to	Calculation
☒	3 v	R3	free v	g v	v	I'-S3'

The results defined in the method are displayed in the upper table. These can be added or removed them using the checkboxes.

You can add further results in the table below by checking “Additional” checkboxes.

If you select the Calculation Mode “free”, you can define custom result calculations by entering the corresponding formula in the field “Calculation”.

The following parameters are available:

'I' Initial Value

'C' Current Value

'S' Step Value

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

“+” Addition

“-” Subtraction

“*” Multiplication

“/” Division

Example formula: 'C' / 'I' * 1000

4.2 Result Table

	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	X	✓ ✓	R1 R2 R3	

Reference[g]	Time	Residue[g]	Time	Result		Calc	Rel. to	Calculation
1.7885	00:00:00	1.7059	03:09:36	95.382	%	rest	initial	
1.7059	03:09:36	0.1350	06:26:42	7.914	%	rest	S2	
		0.1348	06:32:28	0.0791	%	free		(S4'÷S2')
1.7289	00:00:00	1.6486	03:09:50	95.355	%	rest	initial	
1.6486	03:09:50	0.1305	06:26:57	7.916	%	rest	S2	
		0.1302	06:32:43	0.0792	%	free		(S4'÷S2')

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

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

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

5. Statistic

5.1 Statistic Editor

Samples can be grouped together.

Statistic				
	Pos.	Group	Sample	ID
✓	1	A	S	
✓	2	A1	S	
✓	3	A	S	

To assign a sample to a different group, enter the corresponding group name in the Group field.

5.2 Statistic Table

Group: A

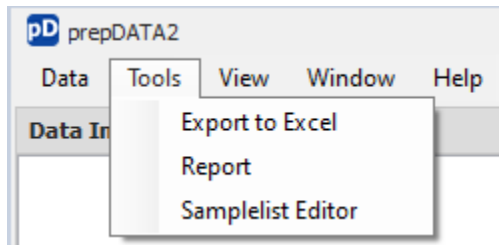
Result Name	Pos.	n		Initial		Residue		Result		Definition	Calculation
R1	1,3,4	3	mean	2.00863	g	1.91677	g	95.42400	%	rest[%]/initial	
			std	0.19118	g	0.18321	g	0.06183	%		
			rstd	9.51775	%	9.55811	%	0.06480	%		
R2	1,3,4	3	mean	2.00863	g	0.15150	g	7.90433	%	rest[%]/S2	
			std	0.19118	g	0.01434	g	0.00839	%		
			rstd	9.51775	%	9.46246	%	0.10610	%		
R3	1,3,4	3	mean	2.00863	g	0.15133	g	0.07903	%	free[%]	(S4+'S2)
			std	0.19118	g	0.01436	g	0.00006	%		
			rstd	9.51775	%	9.48930	%	0.07305	%		

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

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

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

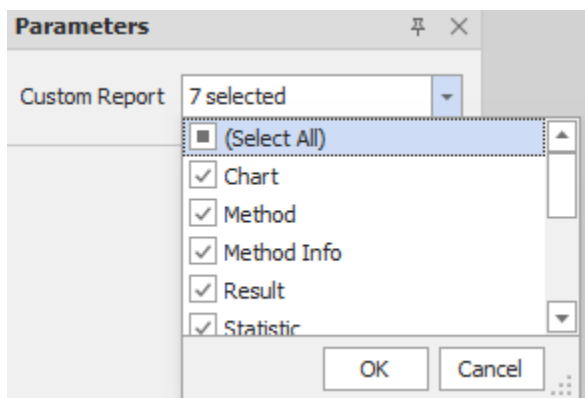
6. Tools



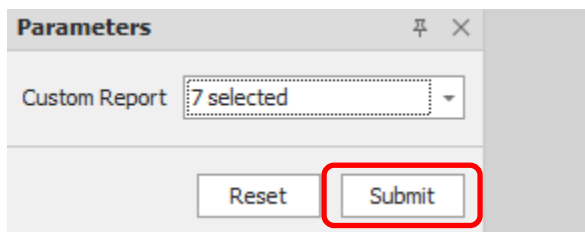
6.1 Export to Excel

In the file dialog, select the folder where the export file should be saved, then click “Save”.

6.2 Report



You can customize the report by selecting the checkboxes.



Click “Submit” to apply the changes.