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Rev	Date	Description
1.4	June 2016	New
1.7	June 2017	§ 2.5.1 § 3, 3.6 § 4, 4.3, 4.5, 4.6, 4.7, 4.8 § 5.6
1.8	August 2017	§ 4.3 § 5.3
1.15	June 2018	§ 4.3, 4.5 , 4.7
1.17	Mach 2019	§ 4.4, 4.5

# 1. Préambule

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## 1.1. Configuration Requisite

Datastick software will need access to certain folders. Before installing the program, please make sure that read and write access is granted. In particular is part of a centrally controlled Windows Domain system, it may be necessary to consult your IT department to allow correct access. Computer running Windows XP, Vista or Seven and one USB port are required.

## 2. Installation

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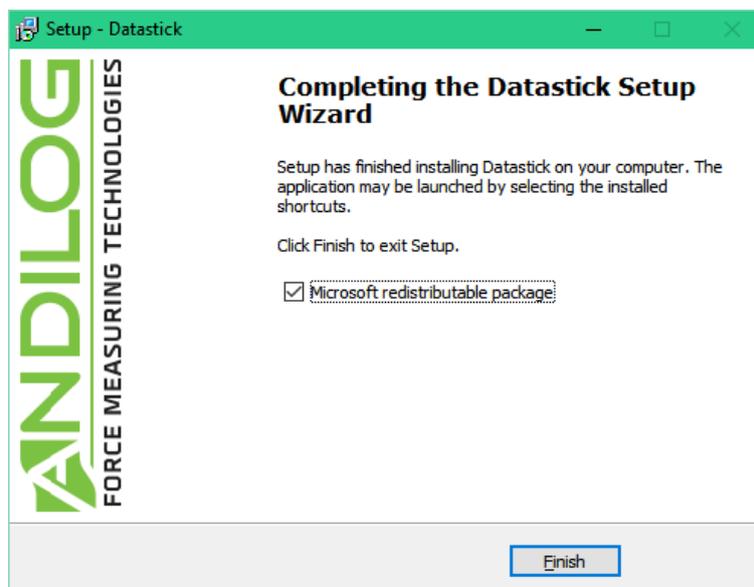
### 2.1. Software setup

Follow the below step by step:

1. Insert the USB drive into the computer's
2. Double-click the file "Setup Datastick V1.7.exe "
3. Follow the prompts on the screen to install the software

Datastick software will began the process of installing the program onto your hard-drive.

By default, Datastick software will be located under "C:\Program Files\Andilog\Datastick", and the file "Andilog" will be automatically created.



### 2.2. First run

#### 2.2.1. File location

When Datastick is started the first time, a dialog box is displayed requiring choosing the location of the "DatastickData" file. This folder will contain all the data saved for each of your tests and test setup you create. We **DON'T** recommend using "Program File" folder location or one of its sub-folder; as it may cause interaction issues with the Datastick software, even if you are administrator on your computer.

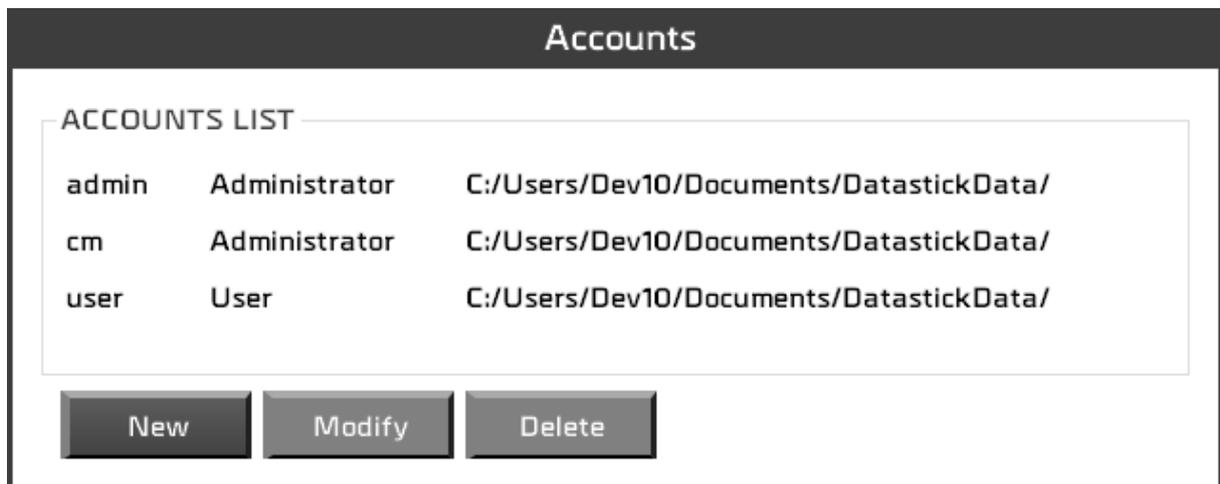
Then the Datastick software will require you to enter a user login and password (a login and password).

**Remark: The default login is: “admin” and there is no password.** Please refer to the next paragraph to create or modify a user account.

Every time that Datastick software is started, a ‘Splash-screen’ is displayed requiring the entry of a valid account.

## 2.2.2. User and administrator accounts

Under “Tools” option from the Home Window menu, select “Accounts”. Here is a snapshot of the dialog box:



Datastick software has two levels of account: “[user](#)” (restricted access) and “[administrator](#)” (unlimited access).

An operator login saved as “user” will be not able to access to the following options: “Create/modify a Test setup”, “delete a curve”, “delete a test” and “Create new account”, however he will be able to access to the “account setting” in order to modify its password.

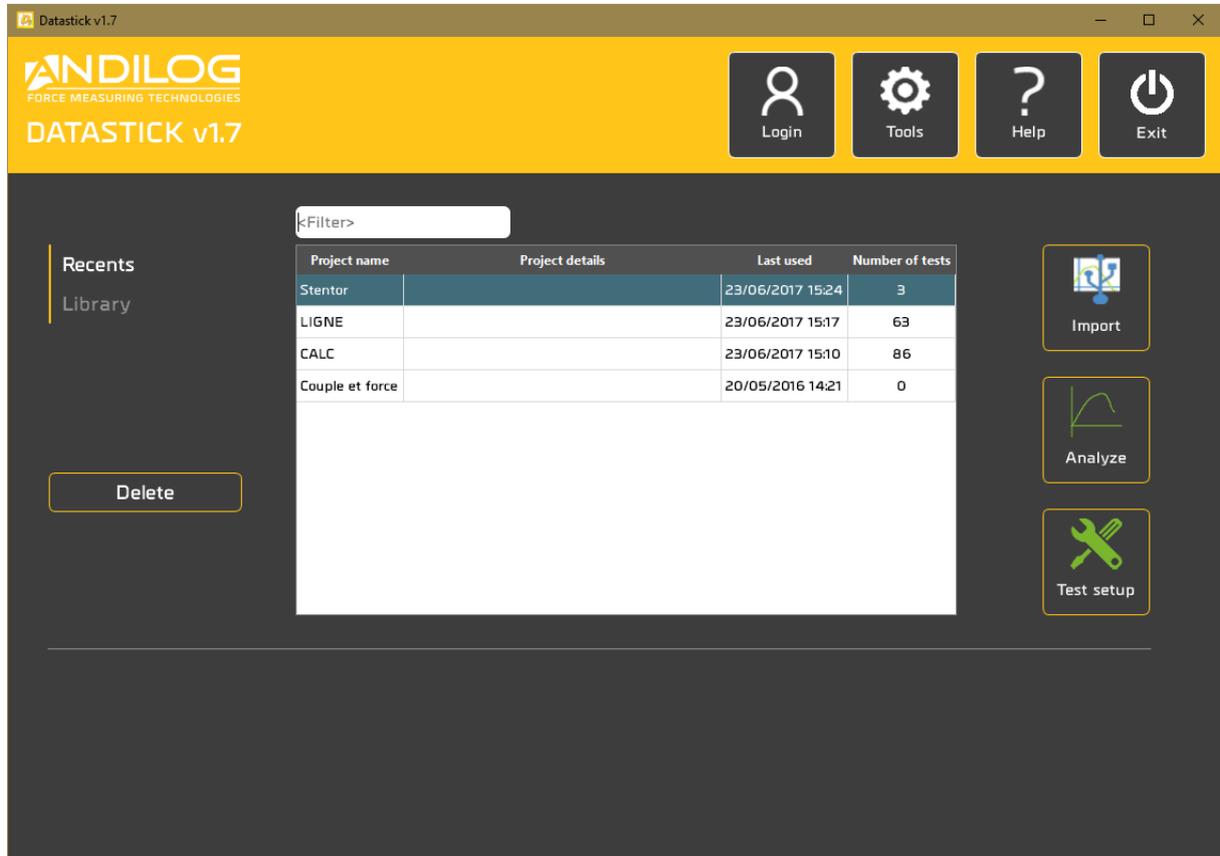
An “administrator” login has full access to all menu of the Datastick software.

The accounts dialog box display all accounts, user and administrators. You can modify the account level, name and password.

You are also able to display the account, with which you are currently connected, but due to security reason you can’t delete it or either changes its level.

## 3. Home Window

Once identified, you access the main menu of Datastick software:



### 3.1. Project types

Using the 2 tabs on the left « Recents », « Library » and « Templates », you can select the projects displayed in the list. You can also look for a specific project using the top filter.

**RECENTS** Latest projects opened

**LIBRARY** All your projects

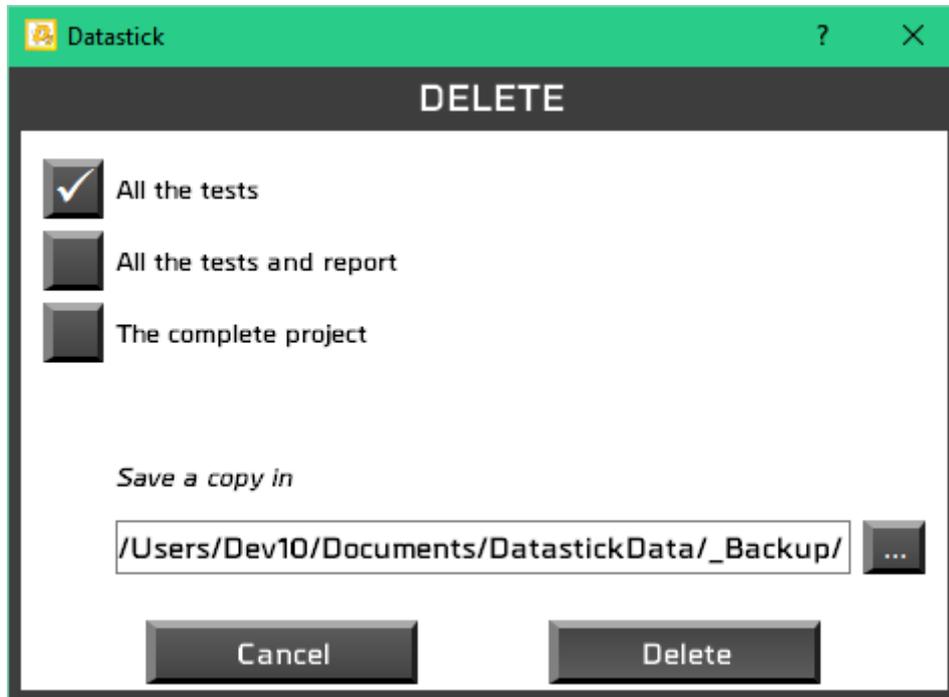
### 3.2. Delete

Delete features are only available for Administrator accounts.

**RECENTS** Delete a project from the “Recents” list. The project itself is not deleted

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**LIBRARY** Partial or permanent removal of a project.

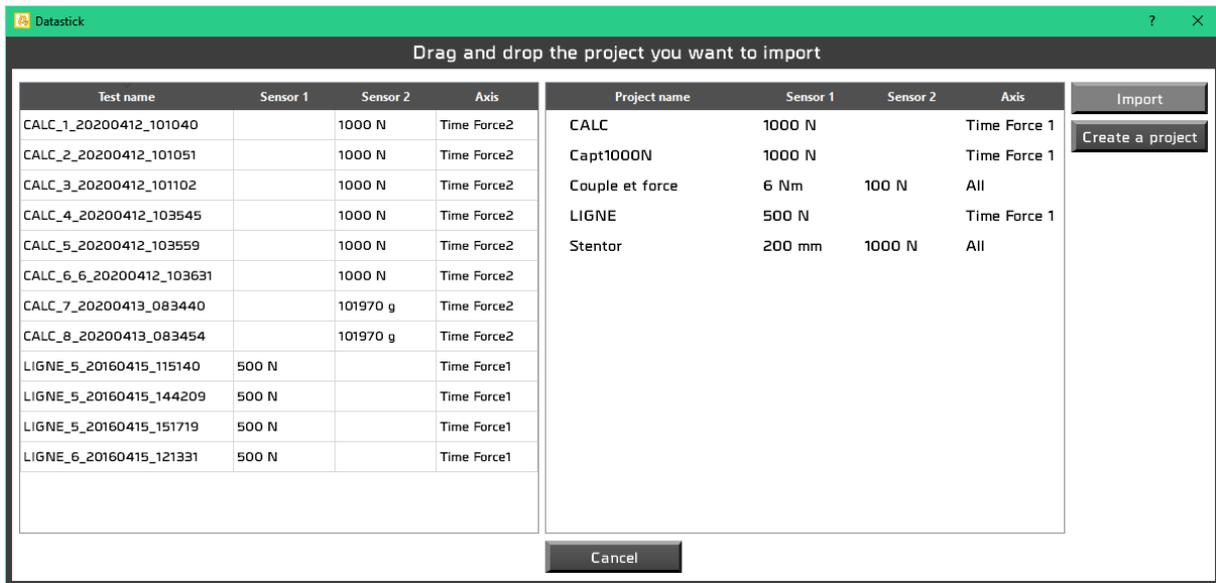


### 3.3. Import

Use to import your curve from your computer or USB drive to Datastick software.

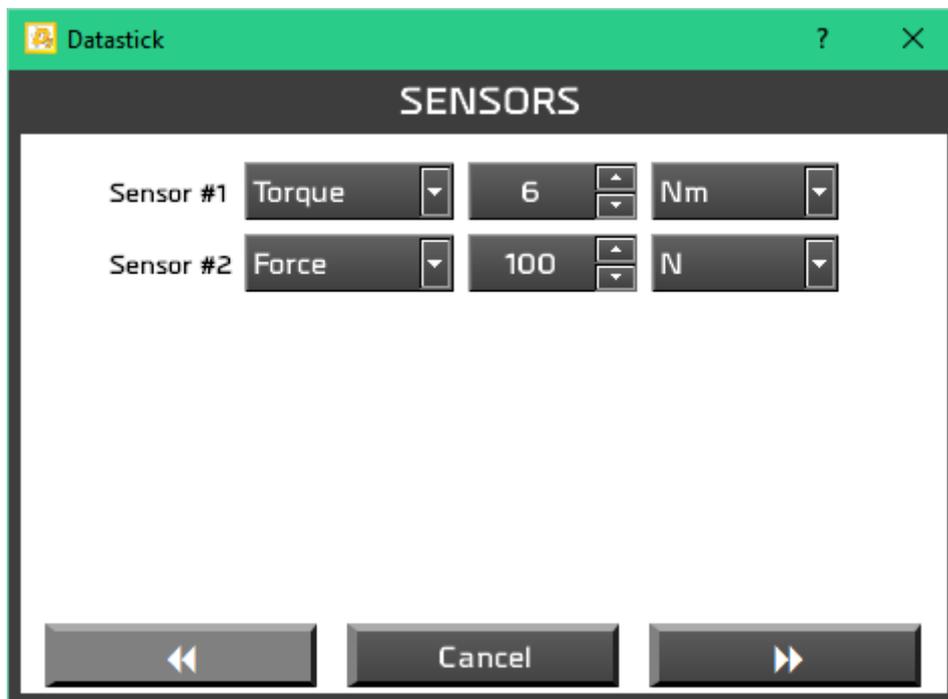


Select the folder where your data is saved. If Datastick software found a USB drive connected to your computer, it will select automatically.

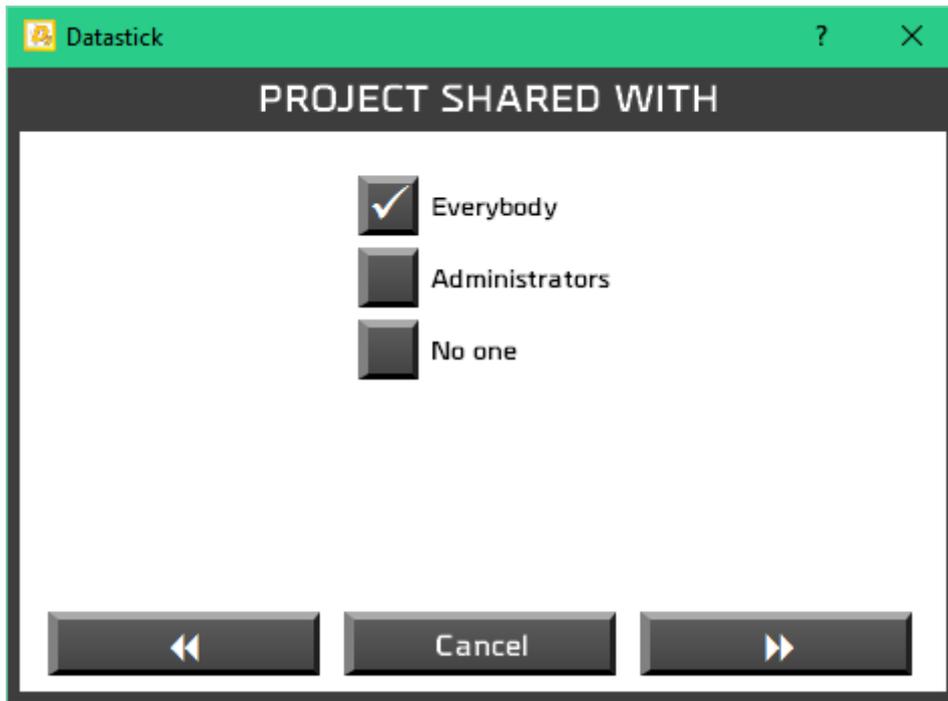


The next window displays on the left, all the valid curves found in the selected directory. You can drag and drop the tests you want to import to the right part of the window. Once all the tests selected, press import to start copying the file from the USB drive to Datastick software.

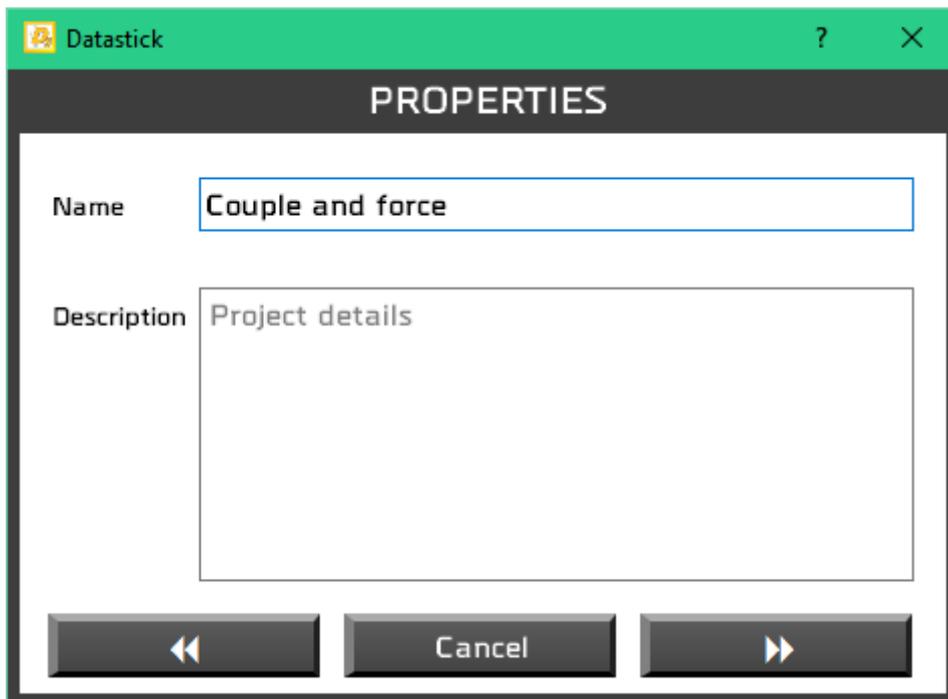
You can create different projects to sort your results. You need at least one project to start importing. To create a project click on “Create a project”



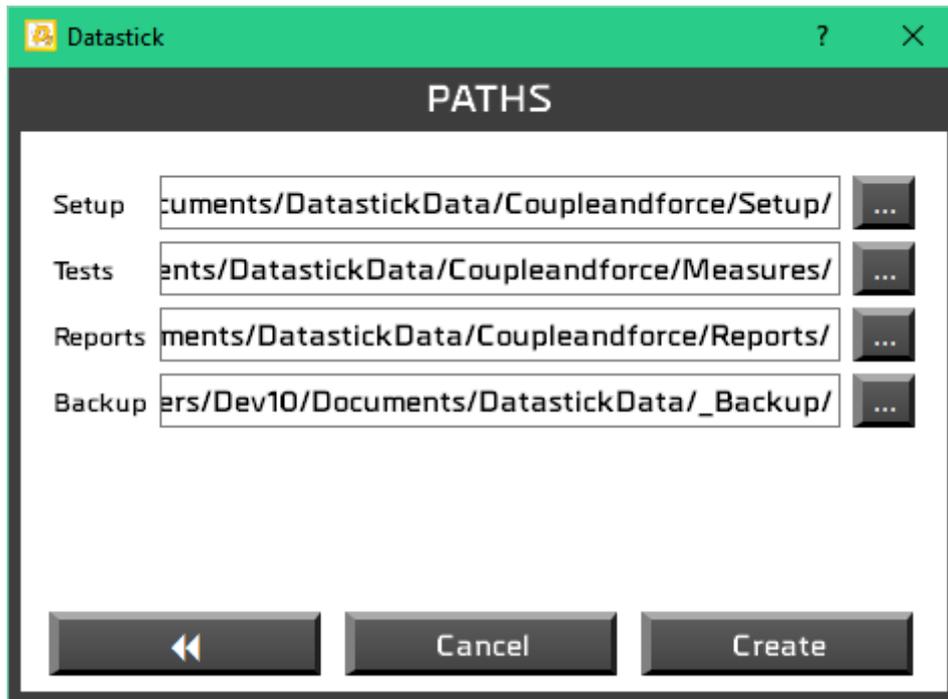
First select the type of load cell and capacity of your equipment.



Then, you can define the access rights to this project (all users, administrator accounts or only you):



Finally you can specify the name and give a short description of your project:



And the path to save the different files:

You can now import data in this project.

### 3.4. Analyse

Display results, curves and tests that have been saved and edit your reports.

### 3.5. Test setup

Create your test configurations, if you are logged with an administrator account.

### 3.6. Login

Switch between users.

### 3.7. Tools

This menu includes five topics:

#### **GENERAL SETTINGS**

Language, logo, list of available equipments, files path

#### **ACCOUNTS**

User accounts settings.

#### **UPDATES**

Allows searching for updates – you must be connected with an administrator account and your computer must have an internet connection. Once a month

Datastick searches if any updates are available.

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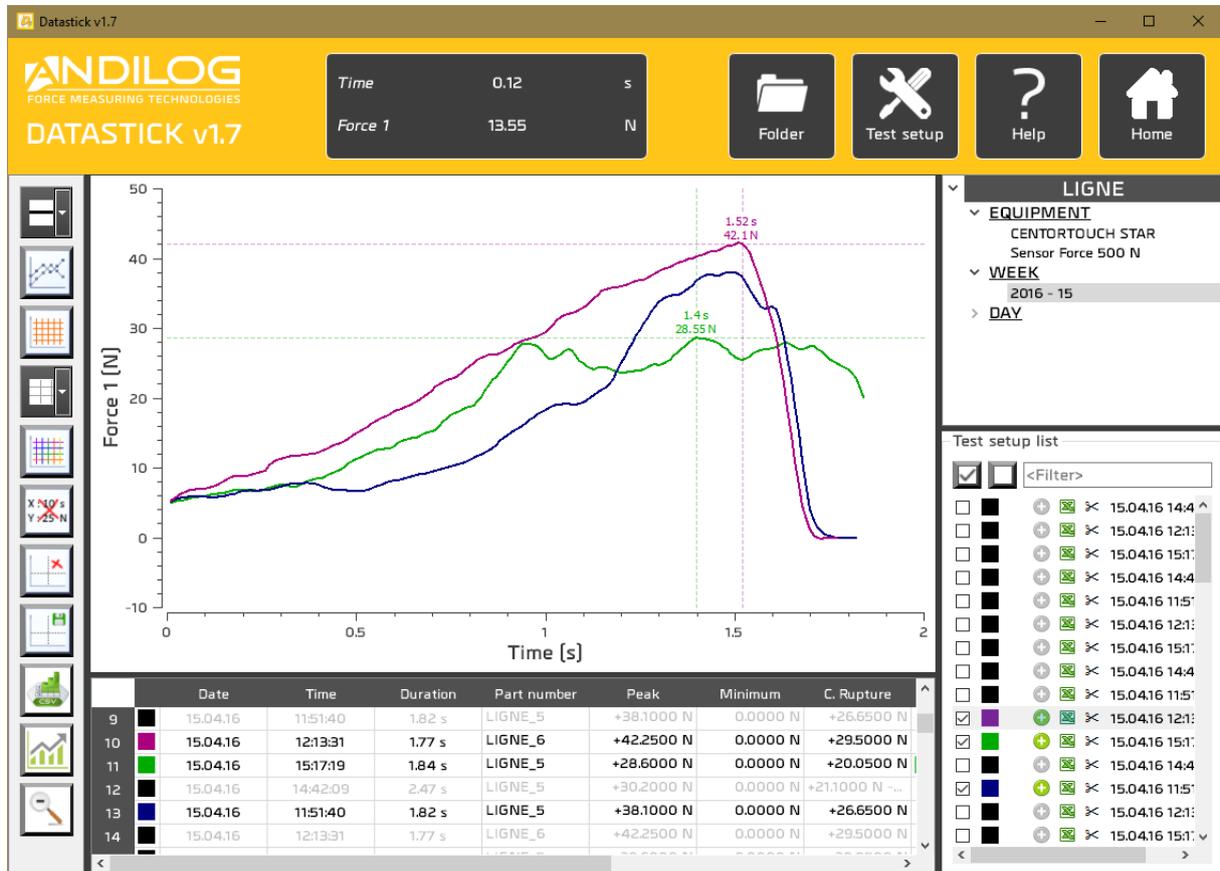
### 3.8. [Help](#)

Open the operating manual.

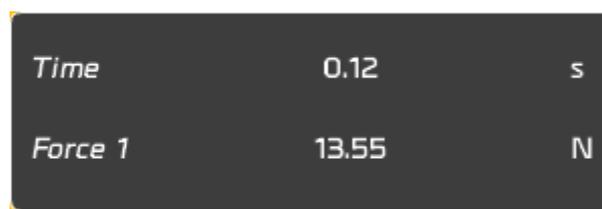
### 3.9. [Exit](#)

Close Datastick.

## 4. Results analysis



### 4.1. Ruler



This window gives the distance between the two markers.

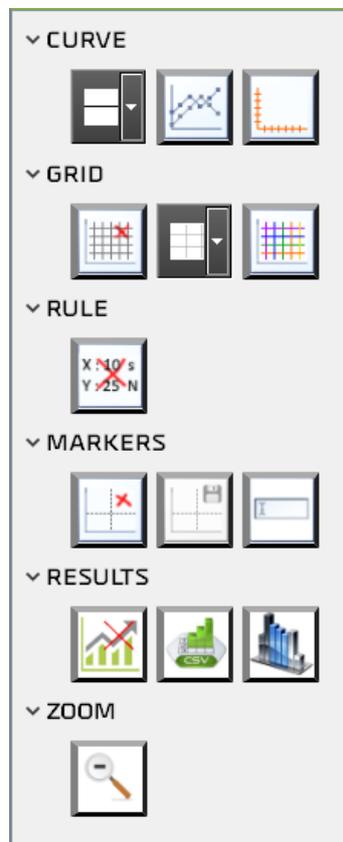
You can hide this part with the following button  From the left tool bar.

### 4.2. Shortcuts



<b>FOLDER</b>	Open the folder with the raw files
<b>TEST SETUP</b>	If you are using an administrator account, you can use this button to navigate directly to the test settings window.
<b>HELP</b>	Open the operating manual.
<b>HOME</b>	Back to the Home Window.

### 4.3. Tools bar



**CURVE THICKNESS**  Thickness of the curve can be adjusted from 1 to 5 pixels.

**DISPLAY PLOTS**  Display or nor each plot of the curve with a cross symbol, which make the use of the marker easier.

**CHANGE AXIS**



If your equipment has two sensors (load cell, torque, travel or angle), you can choose which sensors you want to display on the curve.



**DISPLAY GRID**



Display the grid

**GRID THICKNESS**



Change grid lines thickness

**GRID COLOR**



Change grid color

**DISPLAY RULER**



Display the ruler

**DISPLAY CURSORS**



Displays or hide two position cursors.

**SAVE CURSORS**

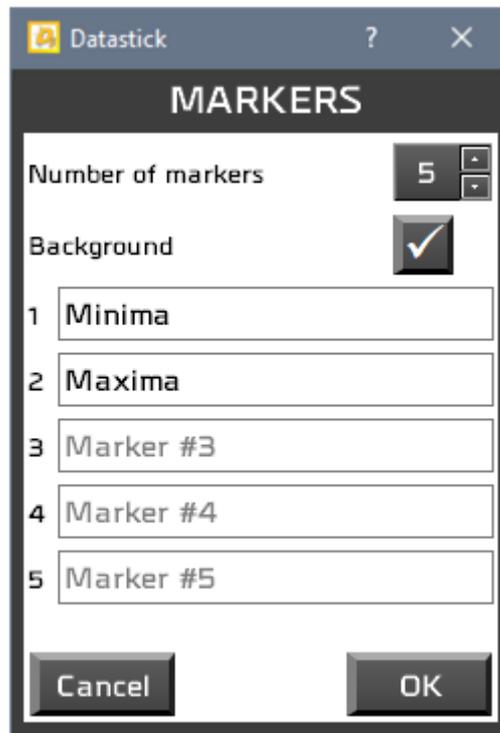


Save the two marker positions

**RENAME  
CURSORS**



You can use up to 5 markers and customize their names. If you check Background, the curve will be displayed in front of the marker.



**STATISTICS**

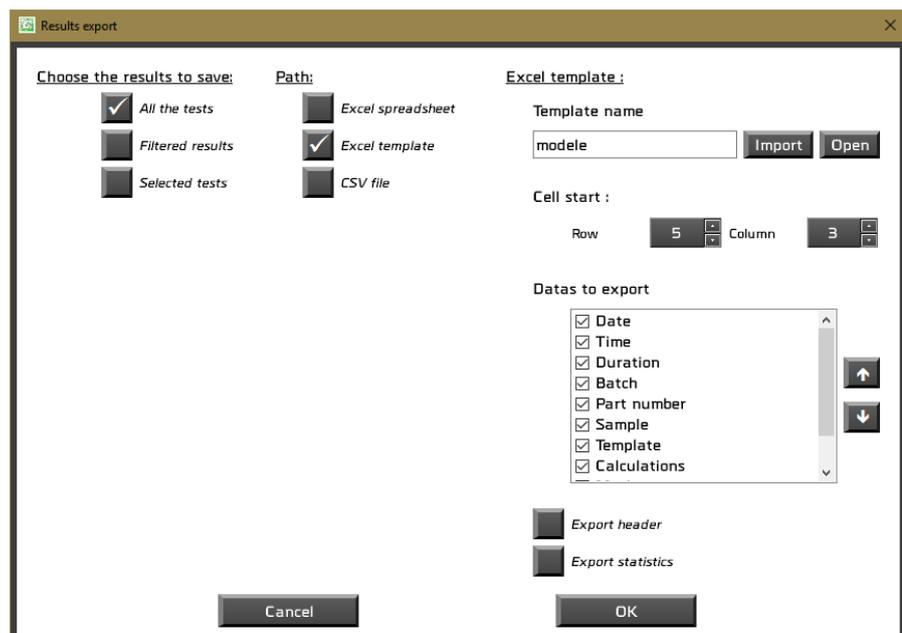


Show or hid statistics lines

**EXPORT  
RESULTS**



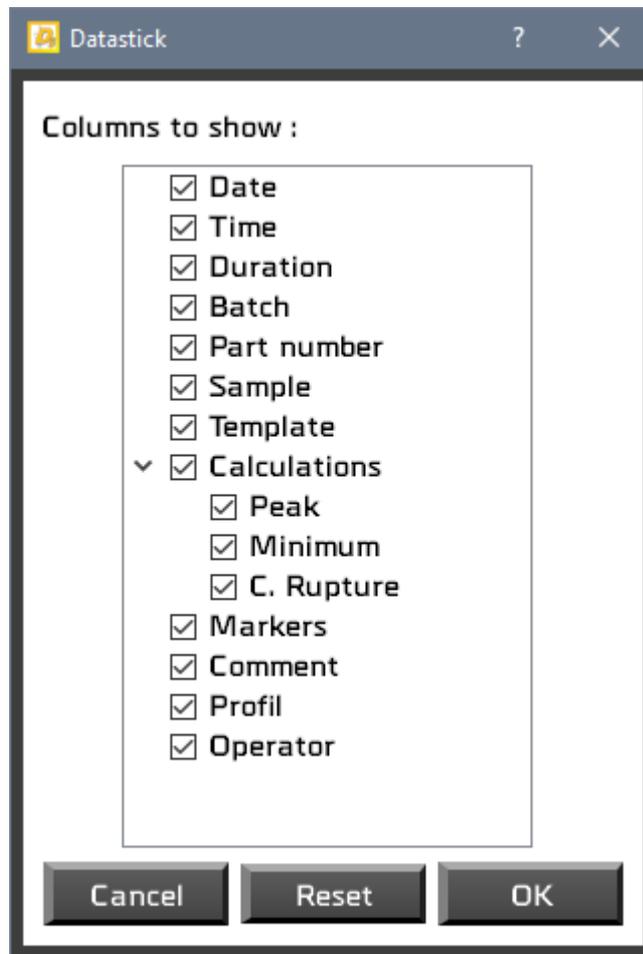
Export results to a csv files or Excel spreadsheet



**COLUMNS**



Choose here the columns you want to display in Analyze and in the reports. The button Reset check all the rows.

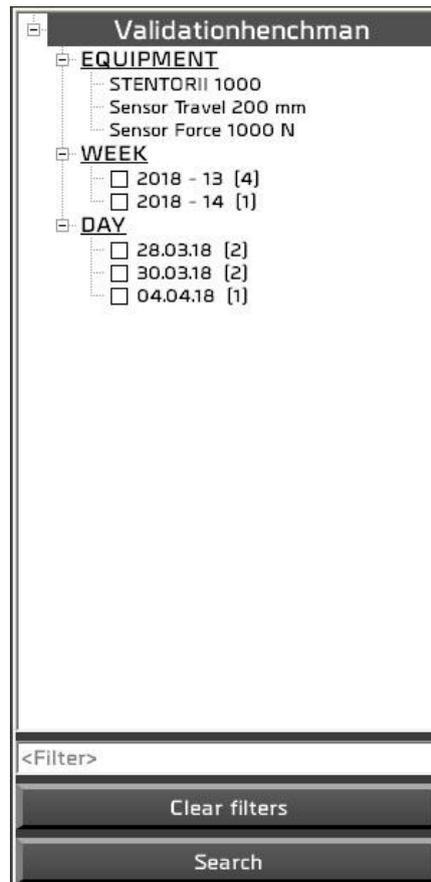


**ZOOM INITIAL**



Go back to the initial view of the curve. If you are using the zoom option several times, return to the original view by clicking this button.

## 4.4. Filters

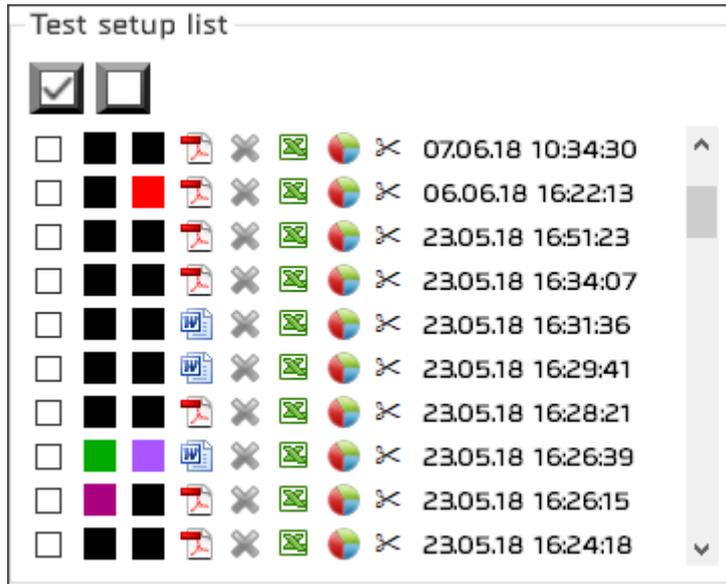


**EQUIPEMENT** Test equipment and sensor specifications used during the test.

**WEEK** You can filter the tests results using one of these two fields: specific week, specific day. You can filter the tests results using one of these three fields: specific week, specific day. Use the Search button to start filtering.

**<filter>**

## 4.5. List of tests



A list of the results organized by chronological or reverse chronological order (according to the specification saved under: Tools/general settings).

**CHECK ALL**  Select all the tests

**UNCHECK ALL**  Select no test

Each test sample includes:

**DISPLAY**  A check box allowing to display or not the curve of the samples.

**COLOR** A colored box defining the color of each curve – you can change the color: right click on it.

**REPORT** An icon specifying the format of the report, if it has been generated. Click on this icon to open the report :

- WinWord
- Open Office Document
- PDF

**GENERATE A REPORT**



A button to generate or delete the report – The report includes results of the ticked check box.



Create a report with an automatically generated format based on the test setup configuration.



Report can't be created as the sample is not ticked.



Delete the report.

**RAW DATA**



An icon to open the raw data in an Excel file.

**CALCULATION S**



It displays a chart with some calculations between 2 markers. To be available you first need to put at least 2 markers on the curve and save them. Then in the chart, choose the markers you want and click on the calculations you want to save.

Select two cursors :

	Time	Position	Force
Maxima	2.995 s	-0.332 mm	0.34 N
Minima	4.003 s	-0.332 mm	-19.652 N
Marker #3	0.299 s	-0.05 mm	-5.98 N
Marker #4	5.026 s	-0.332 mm	-9.492 N
Marker #5			

Results :

	Time	Position	Force
Difference	2.696 s	0.2820 mm	6.3200 N
Peak	2.995 s	-0.0500 mm	0.3400 N
Minimum	0.299 s	-0.3320 mm	-19.6520 N
Average	1.646 s	-0.2431 mm	-10.4565 N
Slopes of the curve		-0.0446 mm/N	-22.4113 N/mm
Slopes of the curve		-0.1046 mm/s	2.3442 N/s
Areas under the curve		-4.3290 mm.N	3.9171 N.mm
Areas under the curve		-0.6557 mms	-28.2029 N.s

Save the results selected

**DELETE**



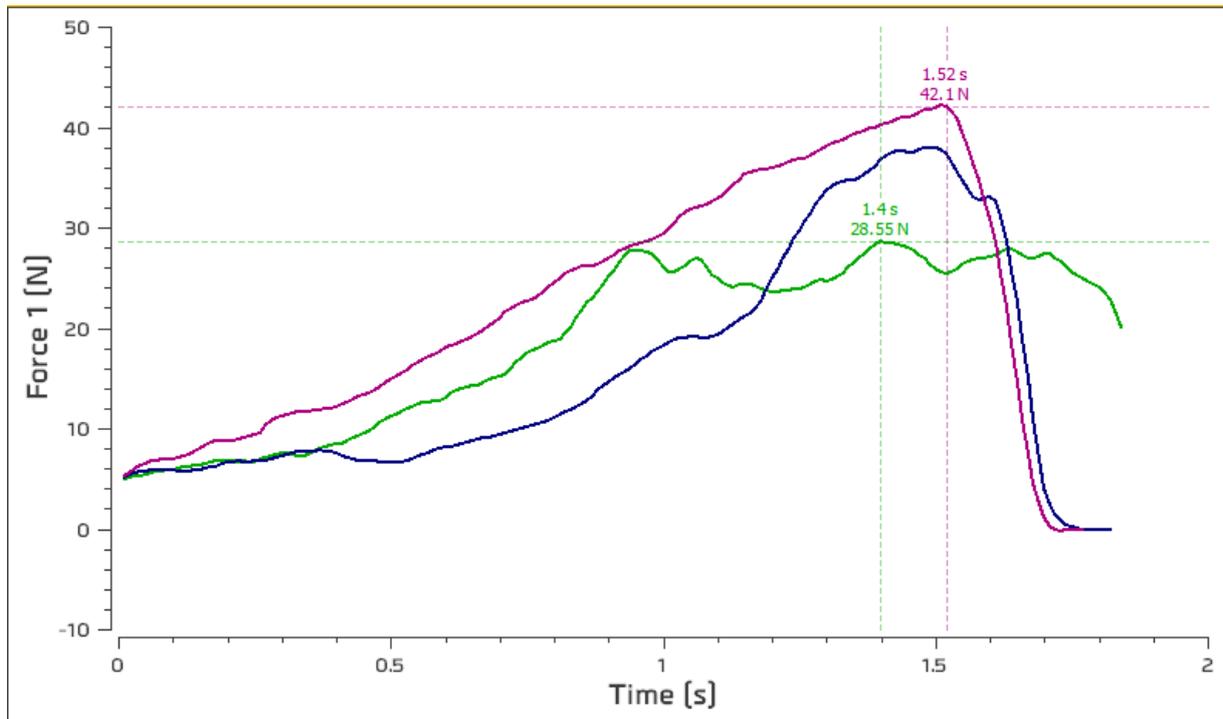
To remove samples from the list, click on the scissor icon – available for administrator account only.

**FILENAME**

19.03.15

The Filename is automatically generated, based on the date and time of the test.

## 4.6. Graph area



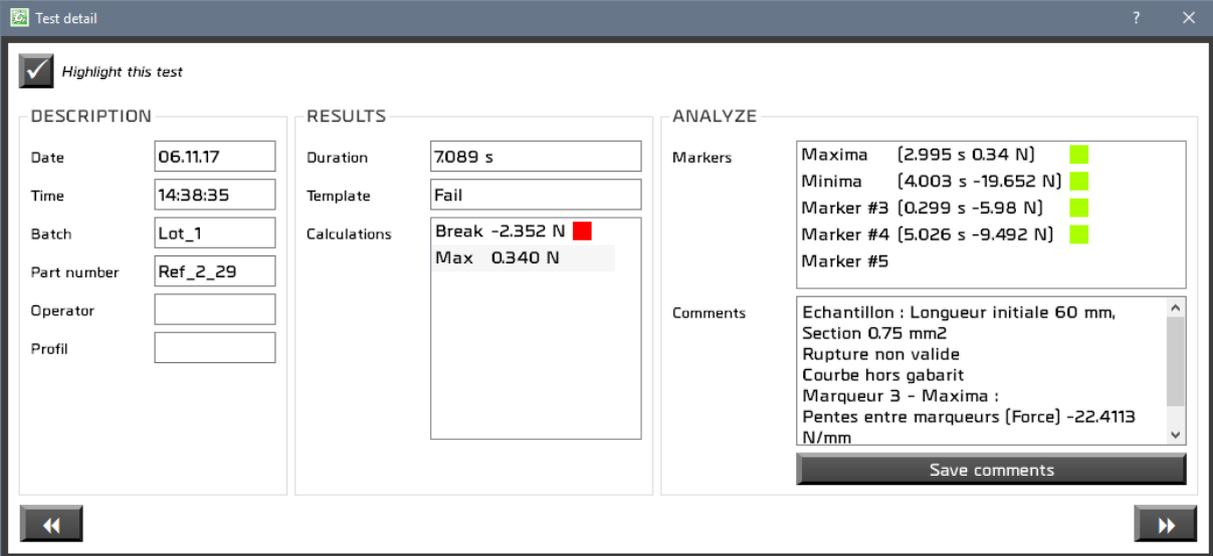
- To zoom, draw a rectangular with the mouse (right click to disable it).
- Crtl + left click: move the graph area (right click to come back to the original view).
- You can move the two cursors on the curve. They will automatically follow the closest curve.

## 4.7. Library of tests

		Average	1.810 s	36.317 N	0.000 N	25.400 N		
		Deviation	0.036 s	6.998 N	0.000 N	4.847 N		
		Date	Time	Duration	Part number	Peak	Minimum	C. Rupture
8	█	15.04.16	14:42:09	2.47 s	LIGNE_5	+30.2000 N	0.0000 N	+21.1000 N -...
9	█	15.04.16	11:51:40	1.82 s	LIGNE_5	+38.1000 N	0.0000 N	+26.6500 N
10	█	15.04.16	12:13:31	1.77 s	LIGNE_6	+42.2500 N	0.0000 N	+29.5000 N
11	█	15.04.16	15:17:19	1.84 s	LIGNE_5	+28.6000 N	0.0000 N	+20.0500 N
12	█	15.04.16	14:42:09	2.47 s	LIGNE_5	+30.2000 N	0.0000 N	+21.1000 N -...
13	█	15.04.16	11:51:40	1.82 s	LIGNE_5	+38.1000 N	0.0000 N	+26.6500 N
14	█	15.04.16	12:13:31	1.77 s	LIGNE_6	+42.2500 N	0.0000 N	+29.5000 N

- The two first lines are the statistics (average and standard deviation) of the selected tests. If all the tests are selected or none of the test, statistics are on all the tests.
- Selecting a test from this table will select the test from the list of tests without displaying the curve in the graph area.
- A red square marked faulty calculations.

- Double click on a line will open details about the selected test.
- You can choose the columns to display with the button 
- 



The screenshot shows a 'Test detail' window with the following sections:

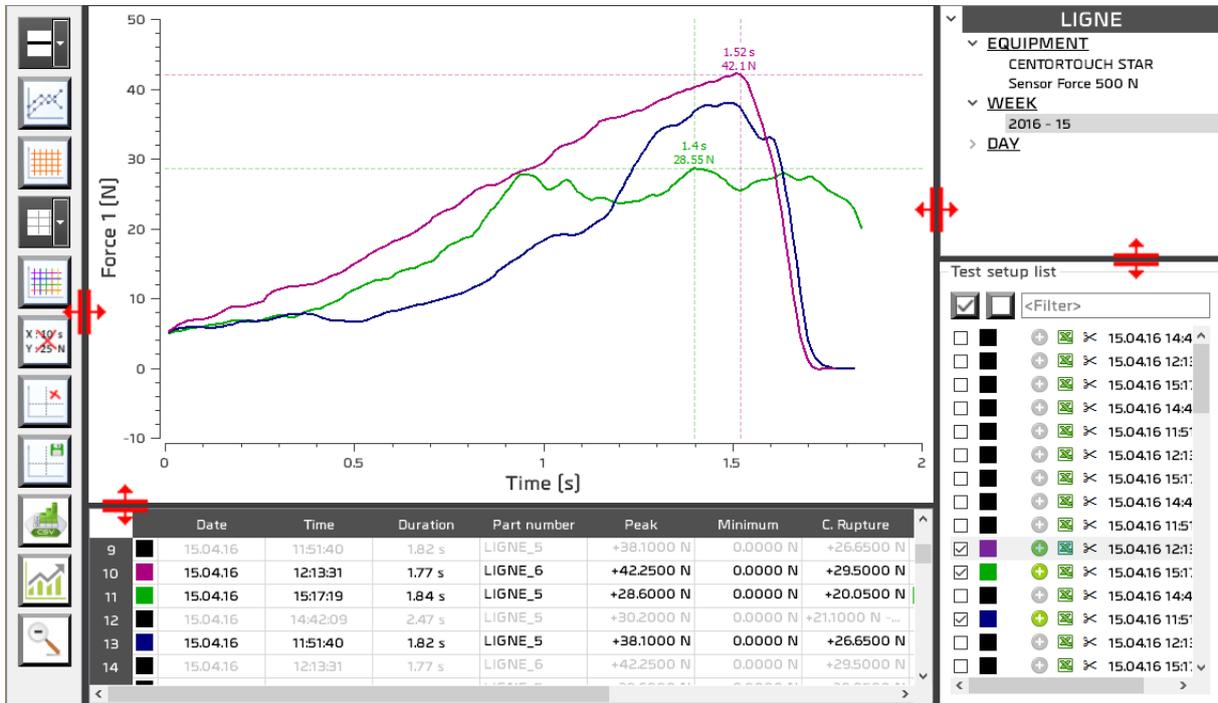
- DESCRIPTION:** Includes fields for Date (06.11.17), Time (14:38:35), Batch (Lot\_1), Part number (Ref\_2\_29), Operator, and Profil.
- RESULTS:** Includes Duration (7089 s), Template (Fail), and Calculations (Break -2.352 N, Max 0.340 N).
- ANALYZE:** Includes Markers (Maxima [2.995 s 0.34 N], Minima [4.003 s -19.652 N], Marker #3 [0.299 s -5.98 N], Marker #4 [5.026 s -9.492 N], Marker #5) and Comments (Echantillon : Longueur initiale 60 mm, Section 0.75 mm<sup>2</sup>, Rupture non valide, Courbe hors gabarit, Marqueur 3 - Maxima : Pentes entre marqueurs (Force) -22.4113 N/mm). A 'Save comments' button is located below the comments field.

You can add notes and save it. You can also choose to highlight this test in the results.

Use these buttons  or  to navigate between the selected test.

## 4.8. Splitters

You can adjust the size of each area using the splitters.



## 5. Test setup

The screenshot shows the Datastick v1.4 software interface. At the top, there is a yellow header with the ANDILOG logo and the text 'DATASTICK v1.4'. To the right of the header are four icons: 'Analyze' (a graph), 'Save' (a floppy disk), 'Help' (a question mark), and 'Home' (a house). Below the header, the interface is divided into several sections:

- Description:** A section for entering a description of the test.
- Equipment:** A section where the equipment is set to 'CENTORTOUCH DUAL'. Below this, there are two sensors:
 

Personalized label	Sensors capacities
1 Travel 1	200 mm
2 Force 2	1000 N
- CURVE(S):** A section for configuring the curves. It shows three curves: 'Time' (Increasing), 'Travel 1' (Increasing), and 'Force 2' (Increasing). A small graph shows the relationship between 'Travel 1 [mm]' and 'Force 2 [N]' over 'Time [s]'. The graph shows two curves: a red curve for 'Travel 1' and a blue curve for 'Force 2'.
- Calculations:** A section for defining calculations. It lists six calculations:
 

Calculation	Channel
Calculation 1: Peak	Channel: Travel 1
Calculation 2: Peak	Channel: Force 2
Calculation 3: Minimum	Channel: Travel 1
Calculation 4: Minimum	Channel: Force 2
Calculation 5: Rupture	
Calculation 6: Moyenne	

### 5.1. Shortcuts



**ANALYZE** Direct access to the analyze window

**SAVE** Save configuration button. The Save button will be available as soon as an argument is modified. You can also use the shortcut Ctrl + S to save your setup.

**HELP** Open the operating manual.

**HOME**      Back to the Home Window menu.

---

## 5.2. Summary

General view of the all test setup.

Stentor

**Description**

**Equipment**

<i>Equipment :</i> <b>CENTORTOUCH DUAL</b>	<i>Horizontal axis :</i> <b>Time</b> <b>Increasing</b>
<i>Sensors :</i> <b>Travel</b>	<i>Vertical axis :</i> <b>Travel 1</b> <b>Increasing</b>
<b>Force 1000 N</b>	<b>Force 2</b> <b>Increasing</b>

**Calculations**

<i>Calculation 1 :</i> <b>Peak</b>	<i>Channel :</i> <b>Travel 1</b>
<i>Calculation 2 :</i> <b>Peak</b>	<i>Channel :</i> <b>Force 2</b>
<i>Calculation 3 :</i> <b>Minimum</b>	<i>Channel :</i> <b>Travel 1</b>
<i>Calculation 4 :</i> <b>Minimum</b>	<i>Channel :</i> <b>Force 2</b>
<i>Calculation 5 :</i> <b>Rupture</b>	
<i>Calculation 6 :</i> <b>Moyenne</b>	

### 5.3. DESCRIPTION tab

#### Description

**PROJECT SHARED WITH**

Everybody

Administrator

No one

**IMAGE**



- Description of your tests. This can be added to the report.
- Share rights (all users, administrators accounts only, only you)

## 5.4. EQUIPEMENT tab

### Equipment

Equipment

**SENSORS**

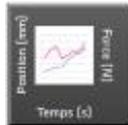
	Personalized label	Sensors capacities
1	<input style="width: 100%;" type="text" value="Travel 1"/>	<input style="width: 100%;" type="text" value="200 mm"/>
2	<input style="width: 100%;" type="text" value="Force 2"/>	<input style="width: 100%;" type="text" value="1000 N"/>

**CURVE(S)**

Time	<input type="button" value="Increasing"/>		
Travel 1	<input type="button" value="Increasing"/>	<input type="checkbox"/>	
Force 2	<input type="button" value="Increasing"/>	<input type="checkbox"/>	

<b>EQUIPMENT</b>	<input style="width: 100%;" type="text" value="CENTORTOUCH DUAL"/>	Name of the test equipment. It can't be changed.
<b>SENSORS</b>	<input style="width: 100%;" type="text" value="Position"/>	You can customize each sensor name
<b>SENSOR CAPACITY</b>	<input style="width: 100%;" type="text" value="200 mm"/>	You can not change this
<b>REVERSE THE SIGN</b>	<input type="checkbox"/>	The sign convention for load (i.e. 'tension' or 'compression') is set in your Centor display device, but you may want to inverse the sign of the collected data in Datastick by checking the button.
<b>CURVE(S)</b>	<input type="button" value="Increasing"/>	Axis sign.
<b>COLOR</b>	<input type="checkbox"/>	Curve color for each sensor.

**AXIS**



Choose what you want to display on each axis of the curve.

## 5.5. CALCULATIONS tab

This tab displays the list of imported calculations with the name and the load cell.

Calculations	
Label	Channel
Peak	Travel 1
Peak	Force 2
Minimum	Travel 1
Minimum	Force 2
Rupture	
Moyenne	

## 5.6. REPORT tab

You can define a different report for each test, these reports are created in the Analyze mode of Califort. Four different formats are available:

- Blank Microsoft Word document
- A Template Microsoft Word document
- Blank Open Document text
- A pdf file

**Report**

**REPORT FORMAT**

*Microsoft Office Word*

*Word template*

*Open Document Text*

*PDF*

**REPORT NAME**

*Prefix "report"*

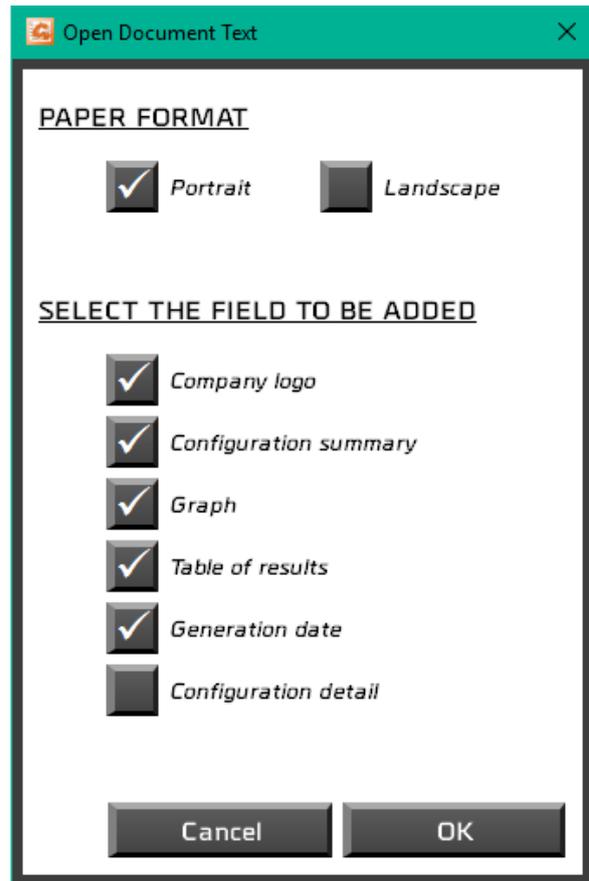
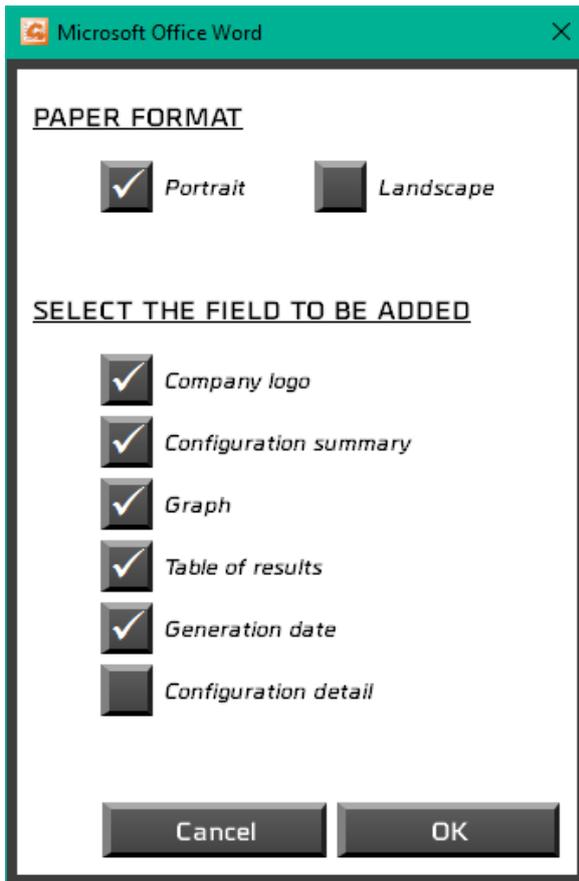
*Test setup name*

*Part number*

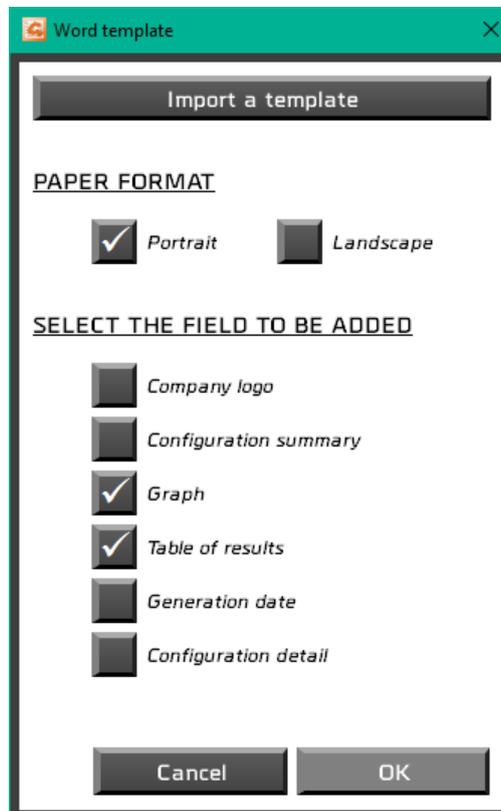
*Date*

*Time*

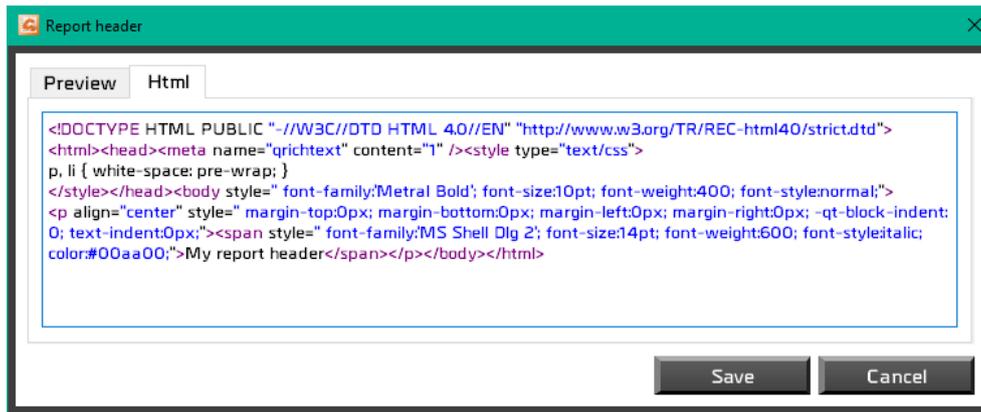
In each type of report, you can choose to display the following information:



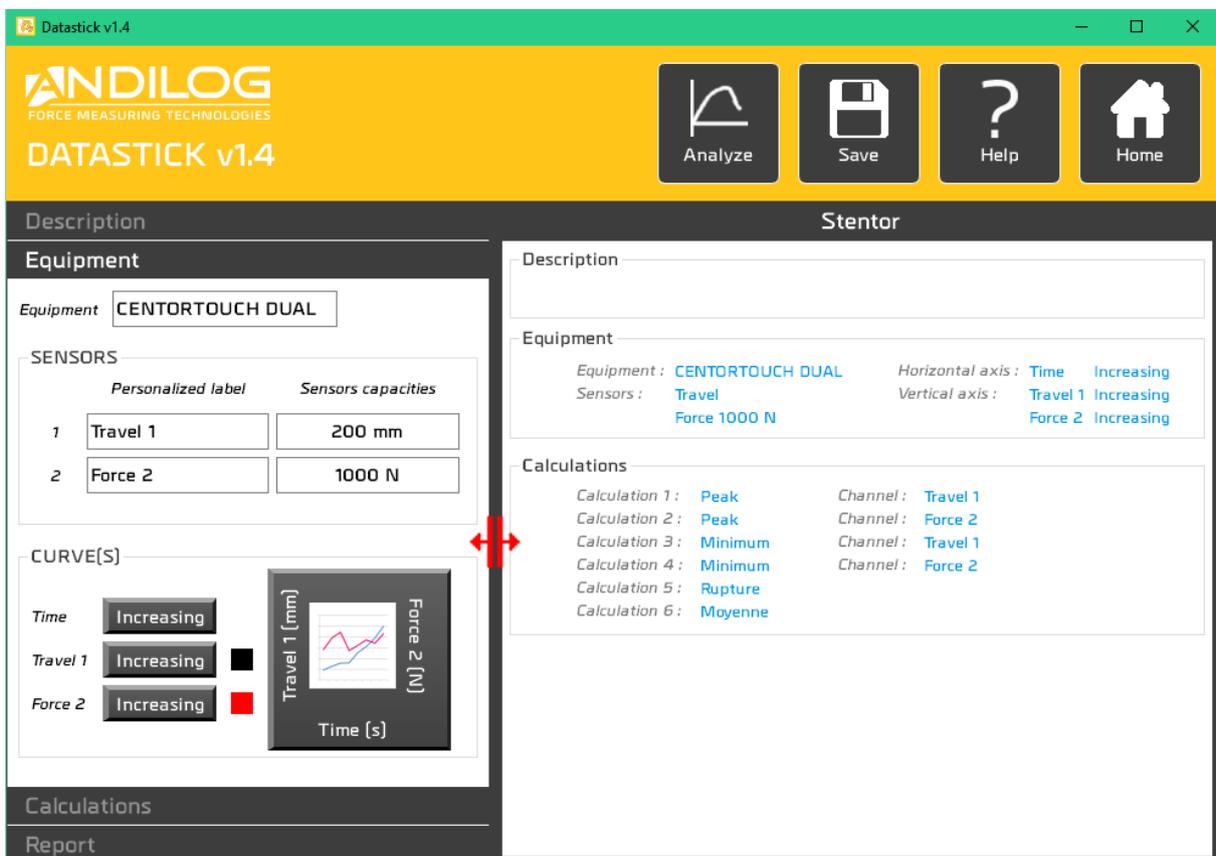
If you choose a **Word template**, you will have to select your Microsoft Word template file (dot or .dotx file). A copy of your file will be imported in your folder DatastickData.







## 5.7. Splitters



You can use one splitter to adjust the size of the different parts.

## 6. Tools

### 6.1. General settings

This part is only available for Administrators.

**General settings**

**LANGUAGE**

French
  English
  Spanish
  German

**FOLDERS**

Path

**COMPANY**

Name

Address

**LOGO**

**KEYBOARD**

Use virtual keyboard

**DISPLAY TEST RESULTS**

Chronological order  
 Reverse chronological order

**LANGUAGE** You can choose which language is used.

**FOLDERS** This field recalls the location of the directory for report files (including results and saved test setup). By default each test results are saved automatically, unless you the check box is not ticked and so after each tests, Datastick will ask you if you want to save it or not.

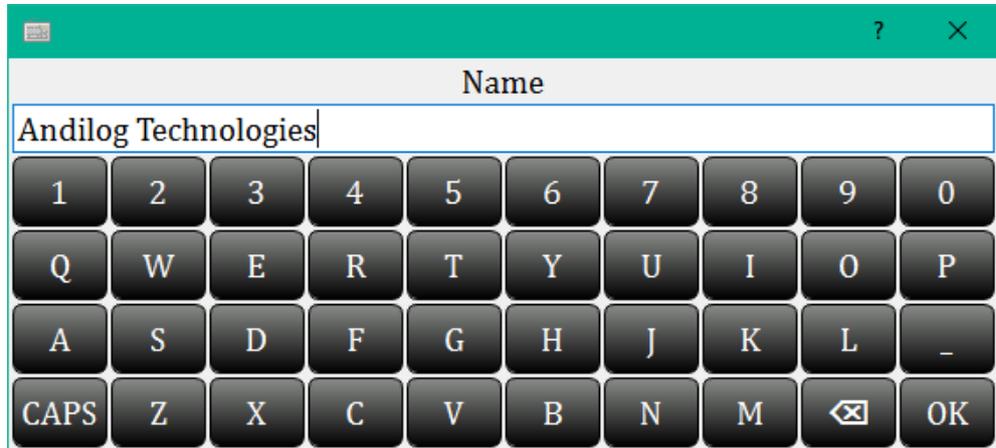
**COMPANY** Your company details (recall on the test report).

**LOGO** Logo displayed on the reports.

**DISPLAY** Choose either you want to organize the library of results by chronological order or

**TEST RESULTS** reverse chronological order.

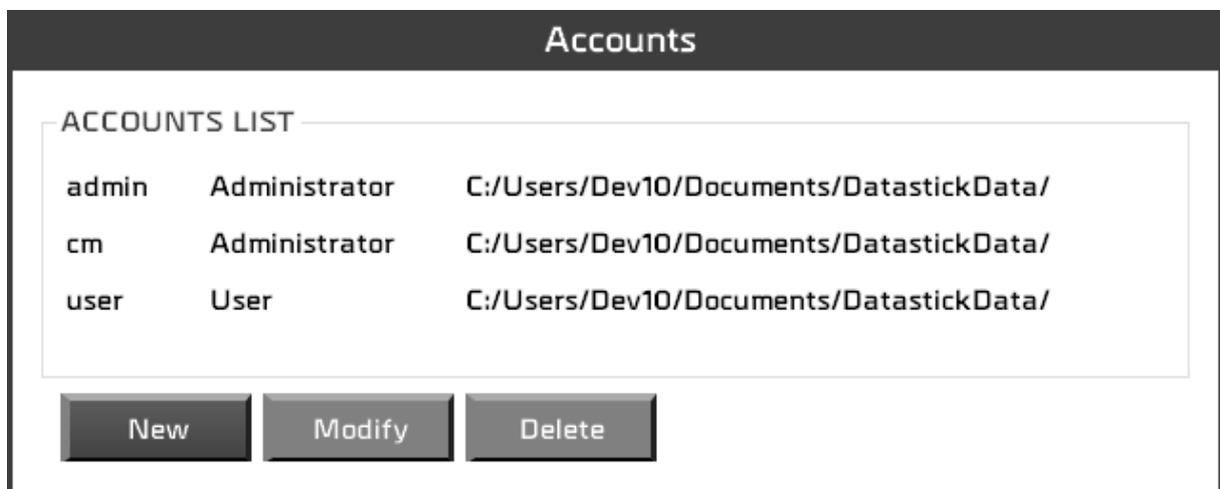
**KEYBOARD** Display a virtual keyboard.



Each change on this dialog box saves automatically.

## 6.2. User accounts

This part is only available for Administrators.



You can:

**NEW** Create a new user.

**MODIFY** Change a user details.

**DELETE** Remove a user account.

You cannot delete your account or change your access level.

For each user you can define the following parameters:

<b>LOGIN</b>	Login
<b>REPOSITORIES</b>	Path to the storage location of the files (test setup and results). Choose to enable the automatic backup of the tests or not.
<b>DISPLAY TEST RESULTS</b>	Select the order of display of the results
<b>KEYBOARD</b>	Virtual keyboard
<b>LANGUAGE</b>	Language

### 6.3. Update

If your computer is connected to Internet, you can update your software to the latest available version. Only Administrators accounts can access this feature.



## 7. Save your data

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In the folder « DatastickData », you can find all the raw data, reports and test results of your projects.

***\_BACKUP*** Copy of the deleted files and project

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***\_BACKUPV4*** Copy of the files of the old version of Datastick.

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***\_TEMPLATES*** Imported templates

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Each project contains 3 folders:

***SETUP*** Datastick saves the test setups with a filename “configuration name.ini”. For security purpose, a backup is saving your test setup every ten launch of the software and saved under “C:\Datastick configuration”

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***MEASURES*** Raw data (curve)

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***REPORTS*** Reports

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