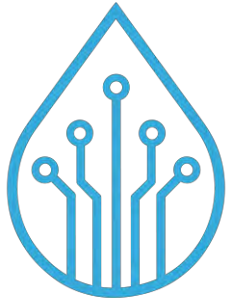


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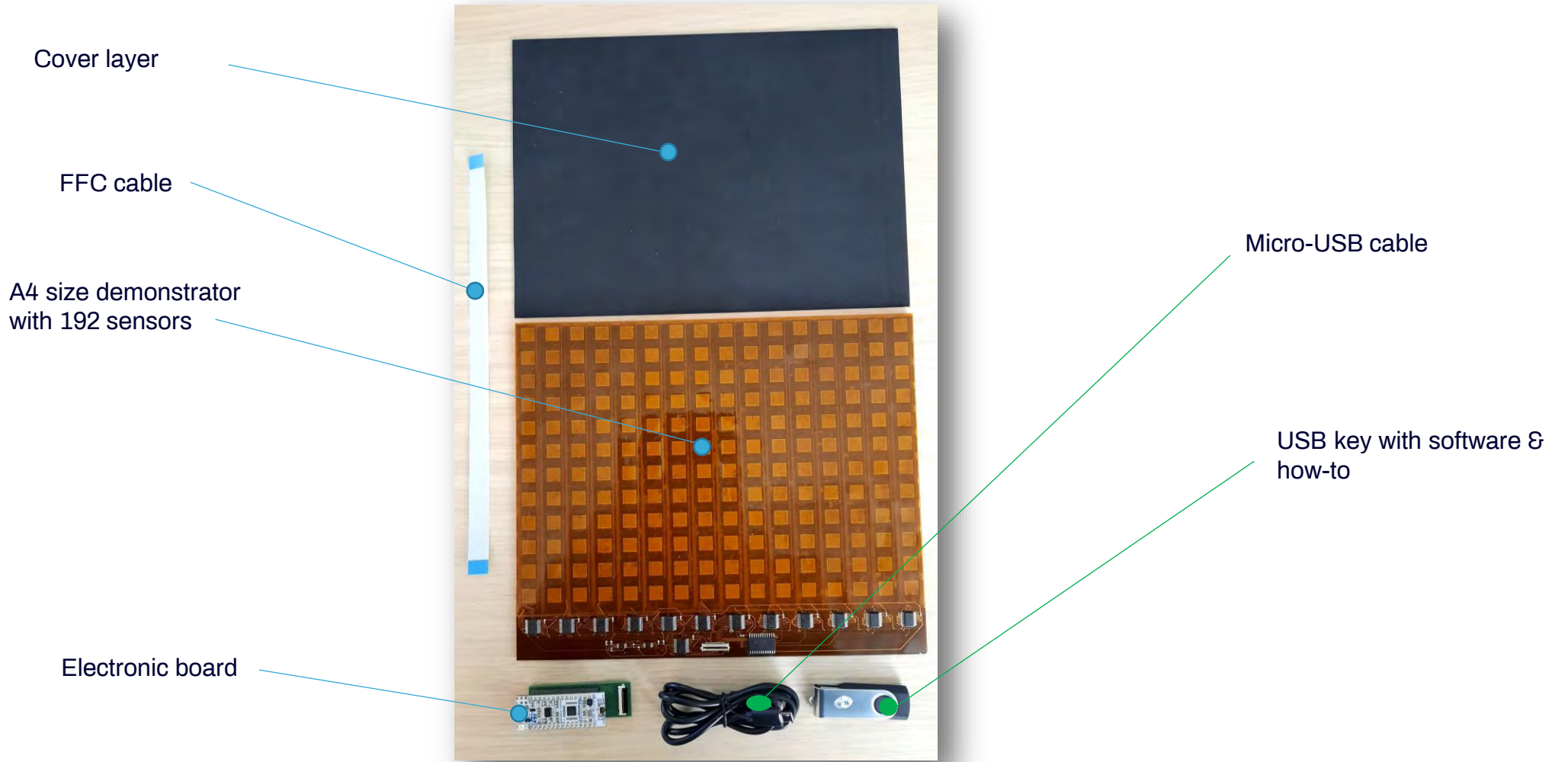
LARGE AREA MULTIPPOINT FORCE SENSING DEVELOPMENT KIT



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Package contents

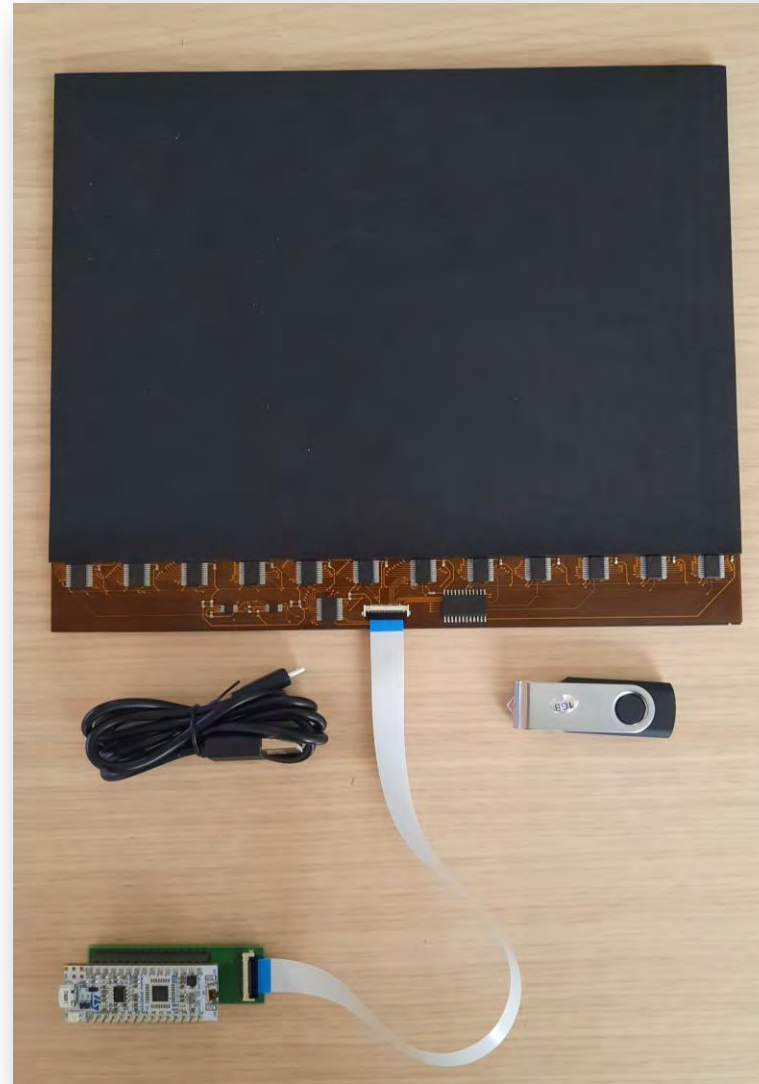
Package contents



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Step 1

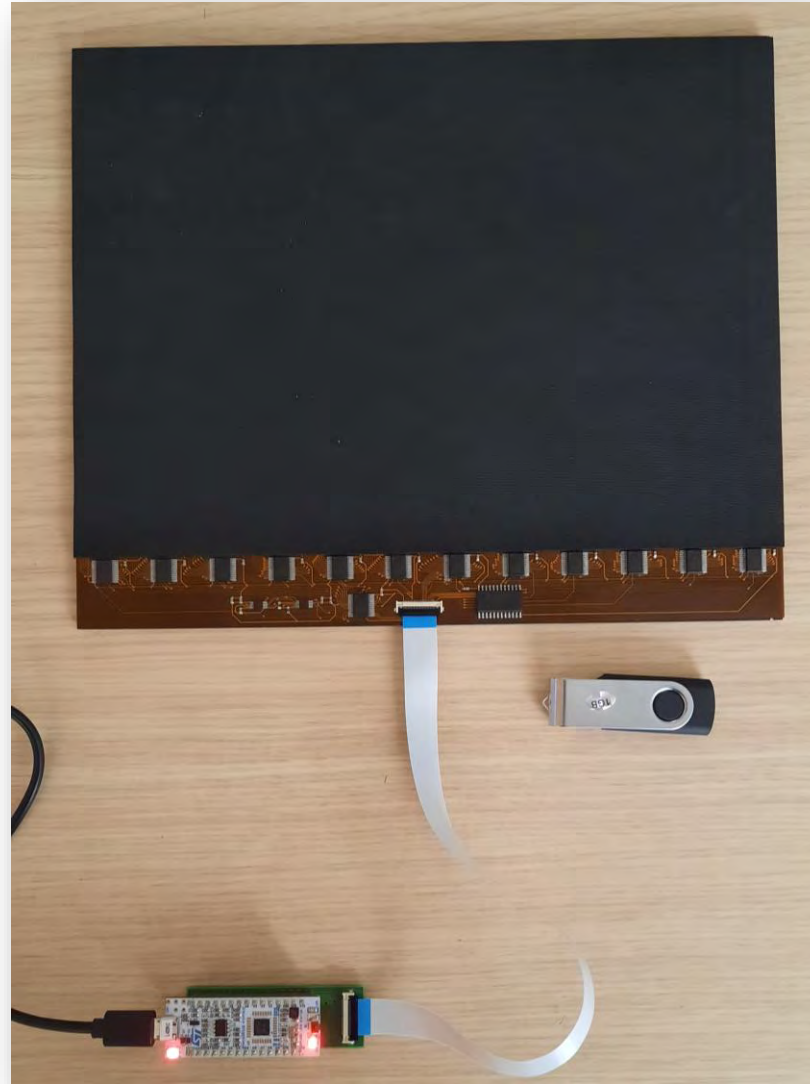
Step 1



- Put the cover layer on the demonstrator surface
- Connect the FFC cable to the demonstrator on one side and to the electronic board to the other side

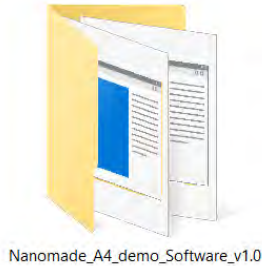
Step 2

Step 2



- Plug the micro-USB cable to the electronic board on one side and the computer to the other side.

Step 3



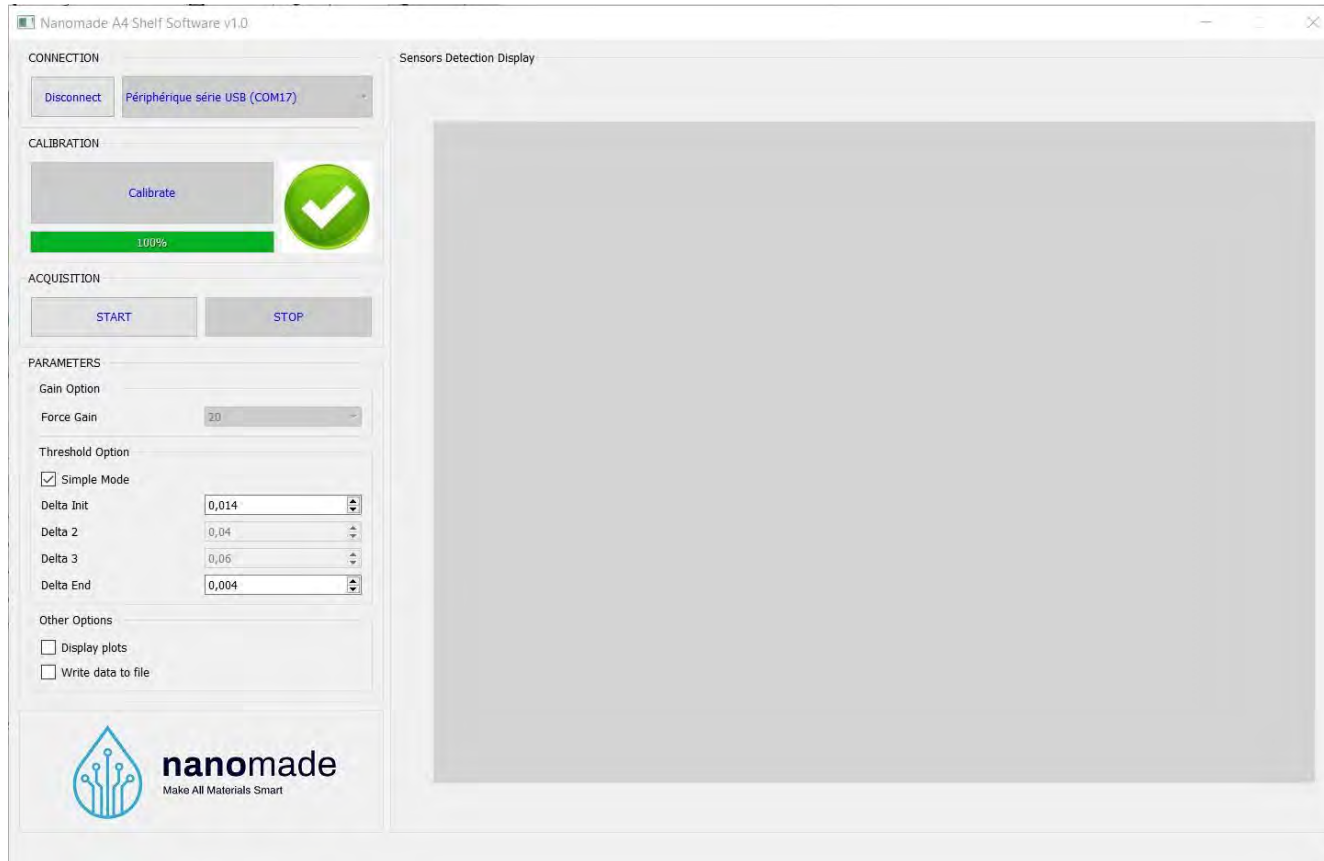
Step 3

imageformats	15/06/2020 14:24
STM32L432KC_Drivers	18/08/2020 18:41
libfftw3-3.dll	19/11/2019 10:13
msvcp100.dll	22/11/2017 16:23
msvcr100.dll	22/11/2017 16:14
Nanomade_A4_Software_4K_v1.0	25/06/2020 11:03
Nanomade_A4_Software_Low_Resolution...	16/07/2020 11:44
Nanomade_A4_Software_v1.0	17/06/2020 17:32
qextserialport1.dll	19/11/2019 10:13
QtCore4.dll	19/11/2019 10:13
QtGui4.dll	19/11/2019 10:13
QtNetwork4.dll	26/11/2012 08:22
QtOpenGL4.dll	19/11/2019 10:13
QtSvg4.dll	19/11/2019 10:13
qwt.dll	19/11/2019 10:13

- In the USB key, open the folder « Nanomade_A4_demo_Software_v1.0» and launch the exec file « Nanomade_A4_Software_v1.0»

Step 4

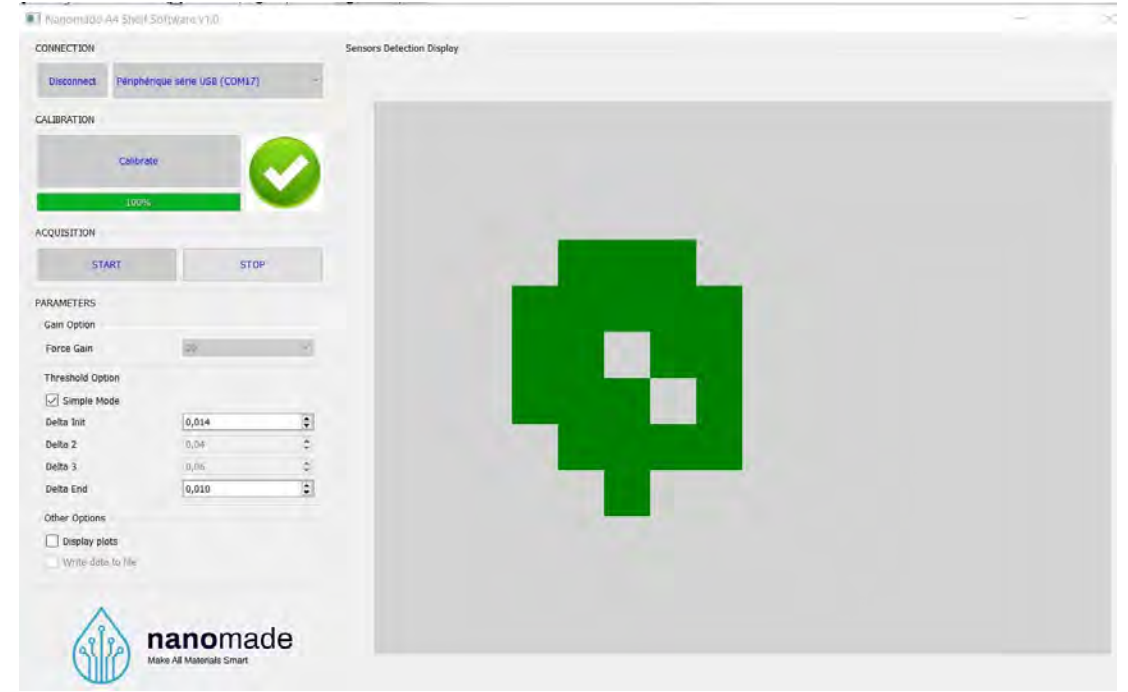
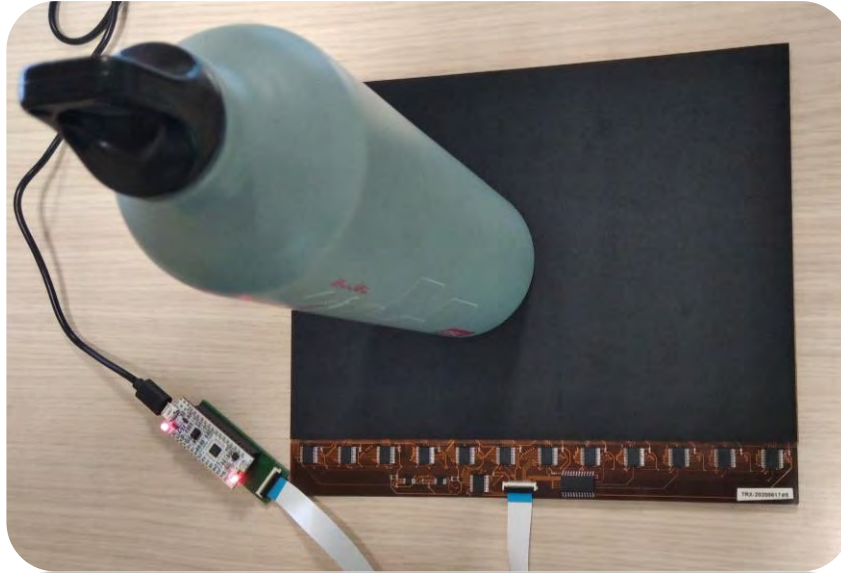
Step 4



- The calibration will start automatically: wait for the green check mark for a successful calibration.
- Once calibration completed, click the START button and wait 5s before putting an object.

Step 5

Step 5



You can start to put some objects on the sensing area, each squares displayed corresponds to activated sensors.

PARAMETERS

Parameters

PARAMETERS

Gain Option

Force Gain

Threshold Option

Simple Mode

Delta Init

Delta 2

Delta 3

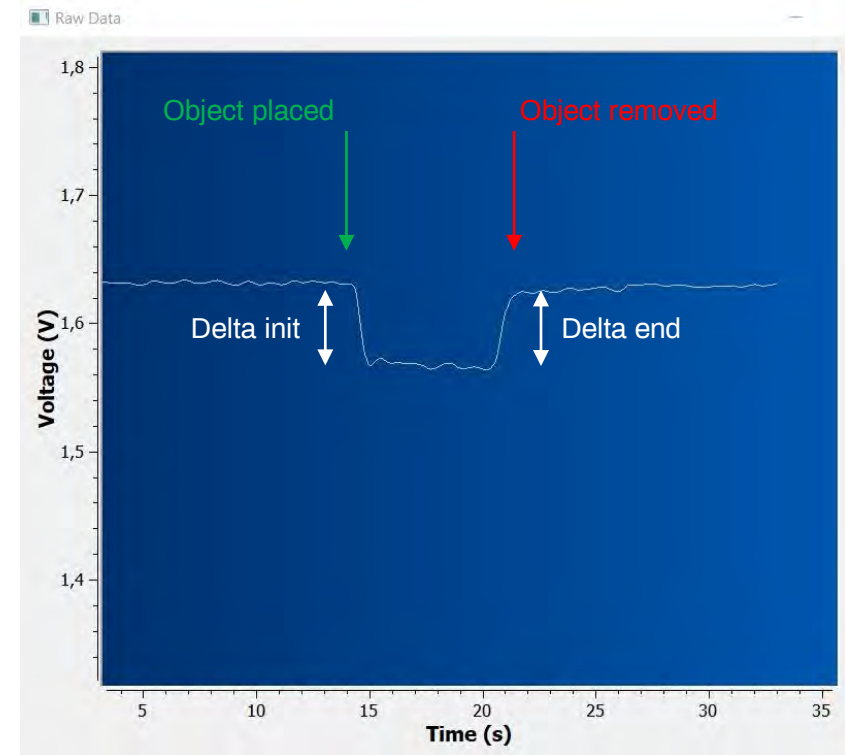
Delta End

Other Options

Display plots

Write data to file

Typical sensor response



« *Simple mode* » is a ON/OFF mode, displayed squares turn green when the « *Delta init* » value is reached, then turn off when « *Delta End* » value is crossed.

PARAMETERS

Parameters

PARAMETERS

Gain Option

Force Gain

Threshold Option

Simple Mode

Delta Init

Delta 2


Delta 3

Delta End

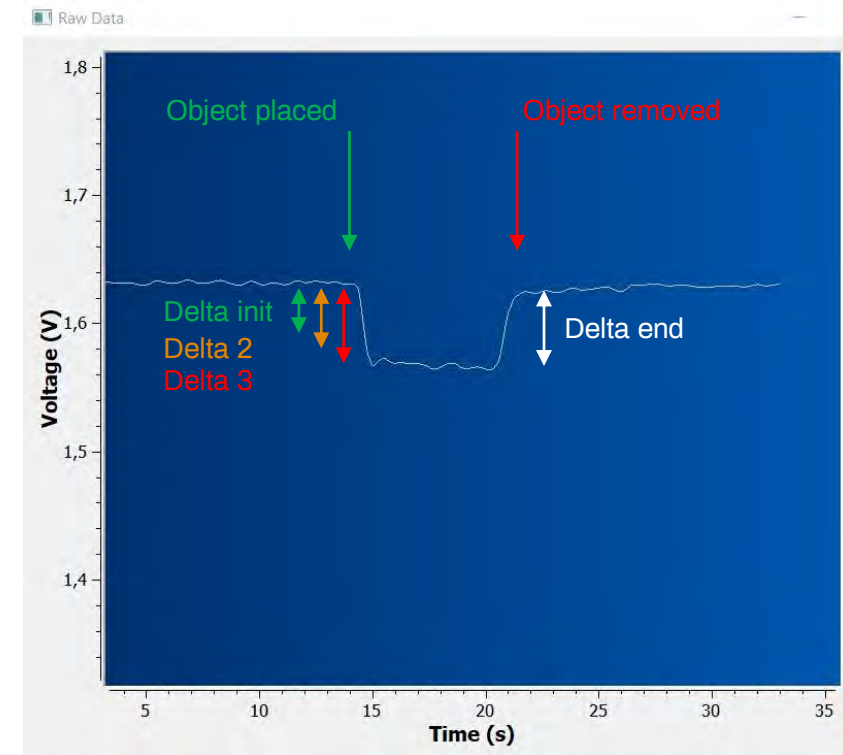
Other Options

Display plots

Write data to file



Typical sensor response



If you uncheck the « *simple mode* », you can adjust « *Delta 2* » and « *Delta 3* » values. Displayed squares turn orange then red when « *Delta 2* » and « *Delta 3* » values will be reached.

OPTIONS

Options

PARAMETERS

Gain Option

Force Gain

Threshold Option

Simple Mode

Delta Init

Delta 2

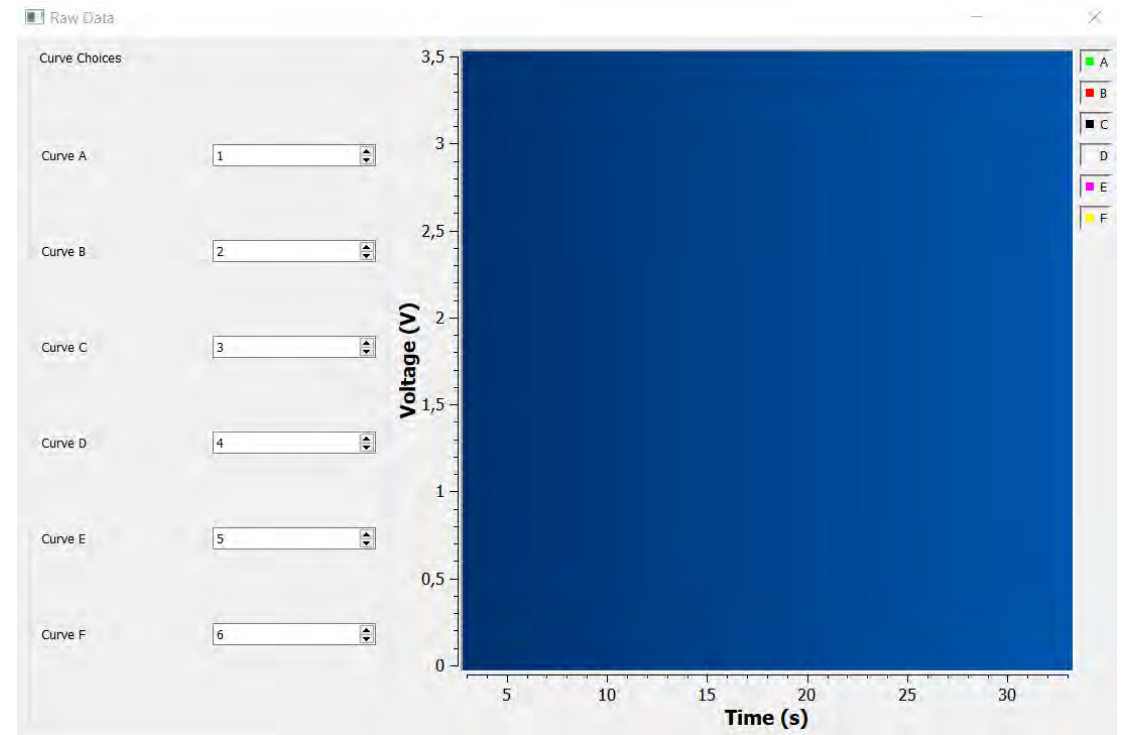
Delta 3

Delta End

Other Options

Display plots

Write data to file



If you check the « *Display plots* » option, you can display the raw signal of 6 of the 192 sensors.

Note : don't move the windows when the software is running, it could make a crash.

OPTIONS

Options

Raw Data

Curve Choices

Curve A

Curve B

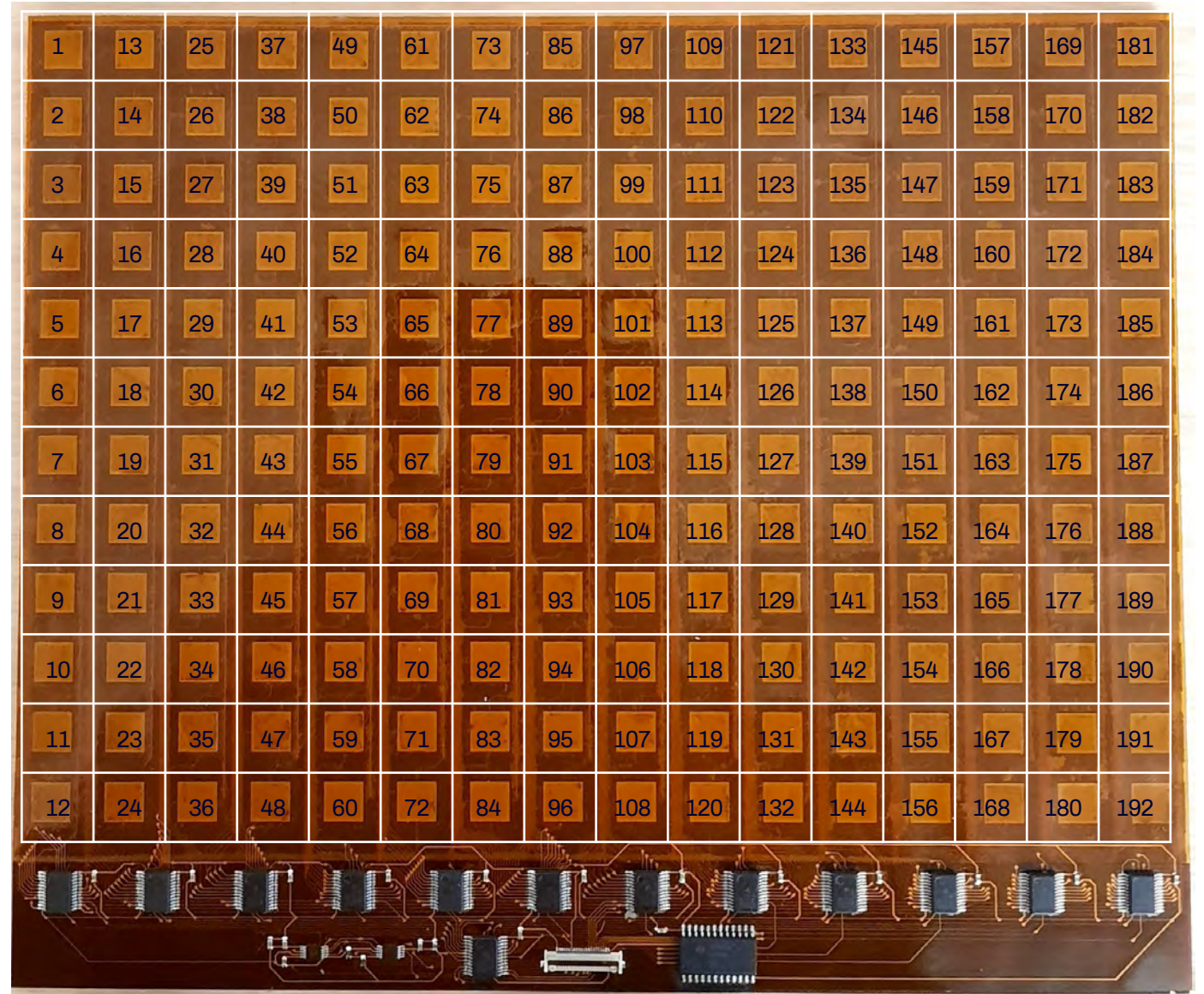
Curve C

Curve D

Curve E

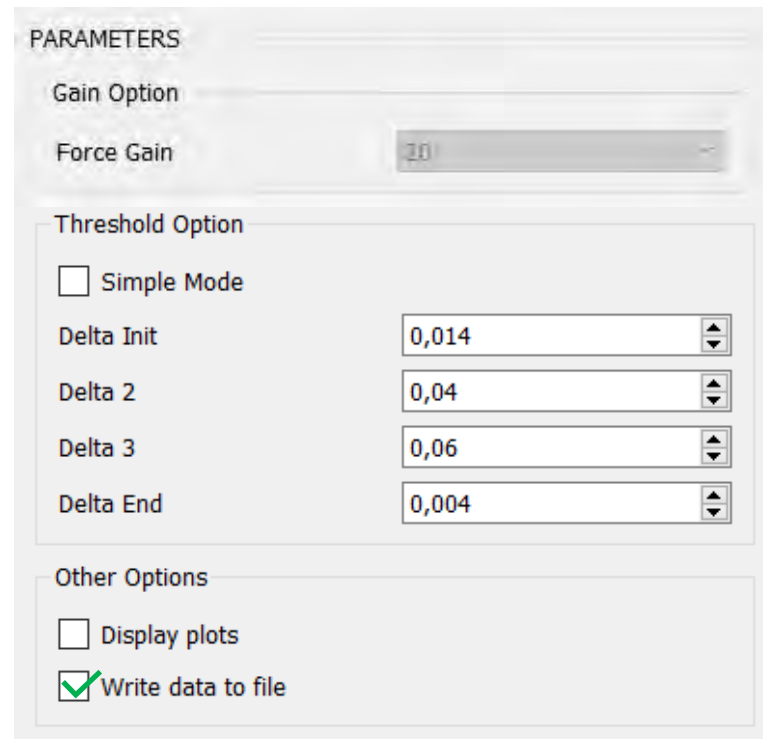
Curve F

You can put the number of the corresponding sensors you want to display.



OPTIONS

Options



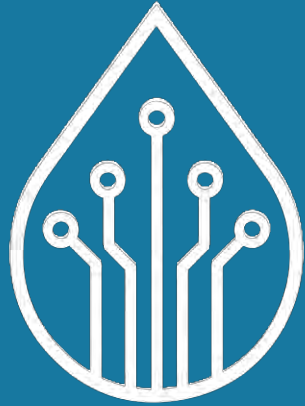
The screenshot shows a software configuration window titled "PARAMETERS". It is divided into three sections:

- Gain Option:** Contains a "Force Gain" field with a numeric value of 20.
- Threshold Option:** Contains a "Simple Mode" checkbox (unchecked) and four numeric input fields: "Delta Init" (0,014), "Delta 2" (0,04), "Delta 3" (0,06), and "Delta End" (0,004).
- Other Options:** Contains two checkboxes: "Display plots" (unchecked) and "Write data to file" (checked).

If you check the « *Write data to files* » before clicking on the START button, you can record the signal of the 192 sensors. A .txt file names « *out.txt* » will appears in the folder « *Nanomade_A4_demo_Software_v1.0* » just after clicking on the **STOP** button.

Note : don't move the windows when the software is running, it could make a crash.

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**WE LOOK FORWARD TO DISCUSSING WITH YOU
ABOUT HOW OUR TECHNOLOGY CAN BENEFIT TO
YOUR BUSINESS.**

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