

# SETTING A CHANNEL WITH DASLaB

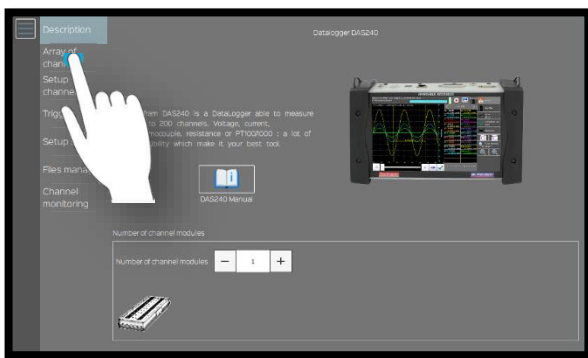
The software DASLaB enables to remotely control a DAS240 recorder. It also enables to download the records.

We are going to see how to set an acquisition channel, with three examples:

- 1) Channel 1 configuration with a single voltage
- 2) Channel 2 configuration with a K type thermocouple to measure an ambient temperature
- 3) Channel 3 configuration with a SHUNT resistor

## 1: Example voltage, setting the channel 1

1- Go to the channels validation by pressing the “Channels and functions On / Off” button:



Description	CH	Channel name	Valid	Type	Filter	Range	Zero	Position
Array of channels				analog				
Setup channels	A1	Voie A1	<input checked="" type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
Trigger	A2	Voie A2	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
Setup screen	A3	Voie A3	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
Files manager	A4	Voie A4	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
Channel monitoring	A5	Voie A5	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
	A6	Voie A6	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
	A7	Voie A7	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
	A8	Voie A8	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
	A9	Voie A9	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
	A10	Voie A10	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
	A11	Voie A11	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %

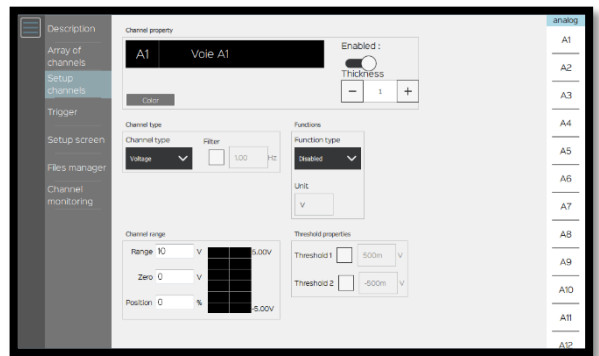
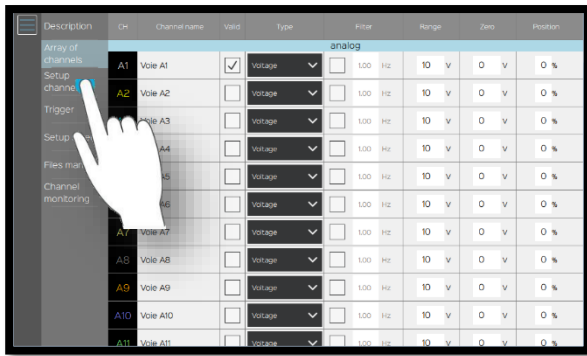
2- Select the channel. Here, we choose channel 1:

Description	CH	Channel name	Valid	Type	Filter	Range	Zero	Position
Array of channels				analog				
Setup channels	A1	Voie A1	<input checked="" type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
Trigger	A2	Voie A2	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
Setup screen	A3	Voie A3	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
Files manager	A4	Voie A4	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
Channel monitoring	A5	Voie A5	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
	A6	Voie A6	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
	A7	Voie A7	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
	A8	Voie A8	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
	A9	Voie A9	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
	A10	Voie A10	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
	A11	Voie A11	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %

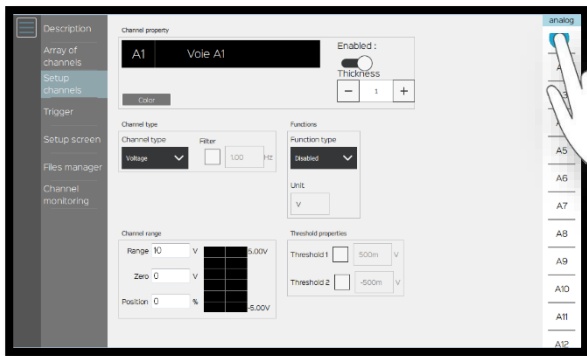


Description	CH	Channel name	Valid	Type	Filter	Range	Zero	Position
Array of channels				analog				
Setup channels	A1	Voie A1	<input checked="" type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
Trigger	A2	Voie A2	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
Setup screen	A3	Voie A3	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
Files manager	A4	Voie A4	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
Channel monitoring	A5	Voie A5	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
	A6	Voie A6	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
	A7	Voie A7	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
	A8	Voie A8	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
	A9	Voie A9	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
	A10	Voie A10	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %
	A11	Voie A11	<input type="checkbox"/>	Voltage	100 Hz	10 V	0 V	0 %

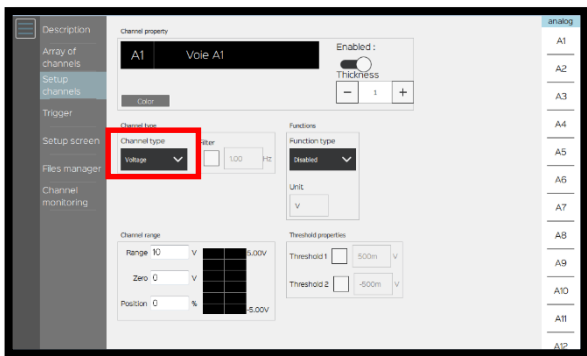
3- Go to the channel configuration :



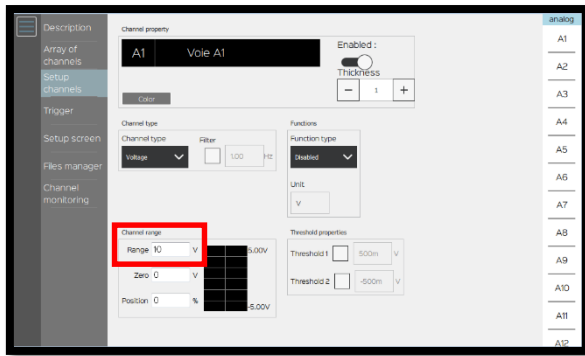
4- Go to the channel setting by pressing the channel to be set:



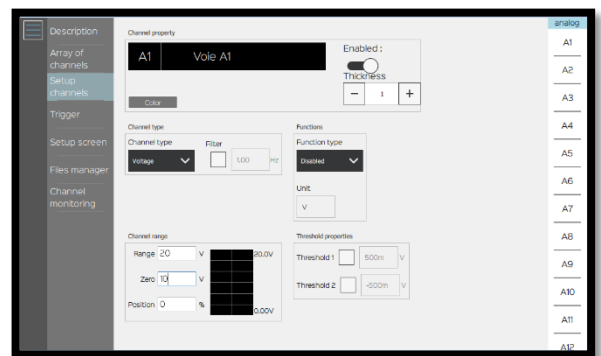
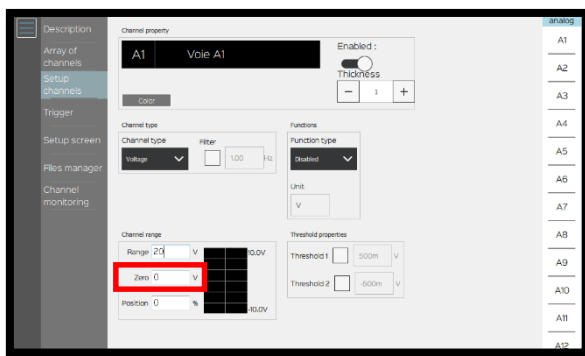
5- Set the type of measurement, here we make a voltage measurement:



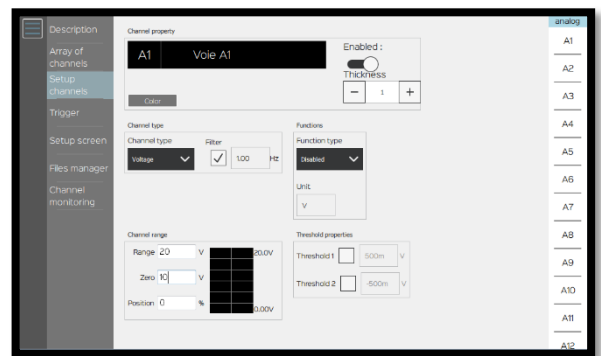
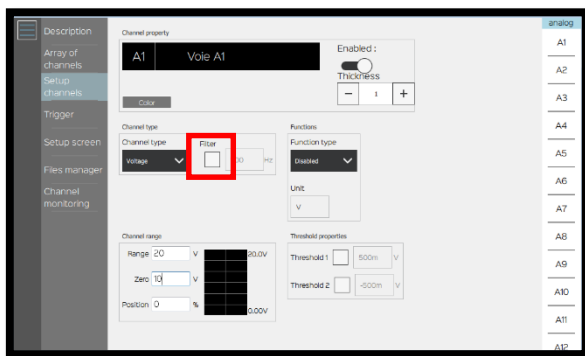
6- Choose an adapted caliber for this voltage, in this example we will choose a 20V caliber:



7- Set the zero's position, here we will use the value 10V because we have a 20V caliber and we want to visualize a positive voltage. The range will be 0 to 20V:

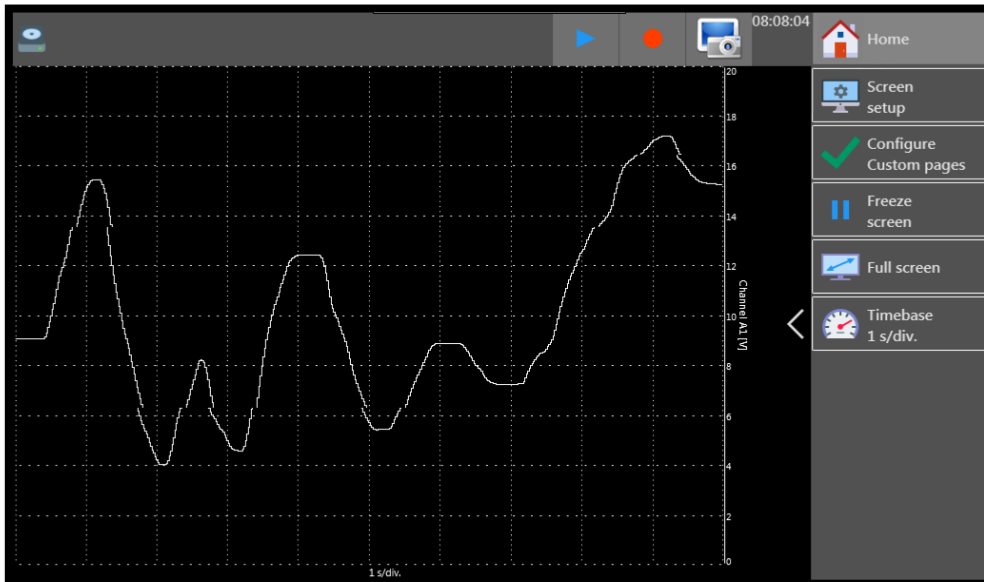
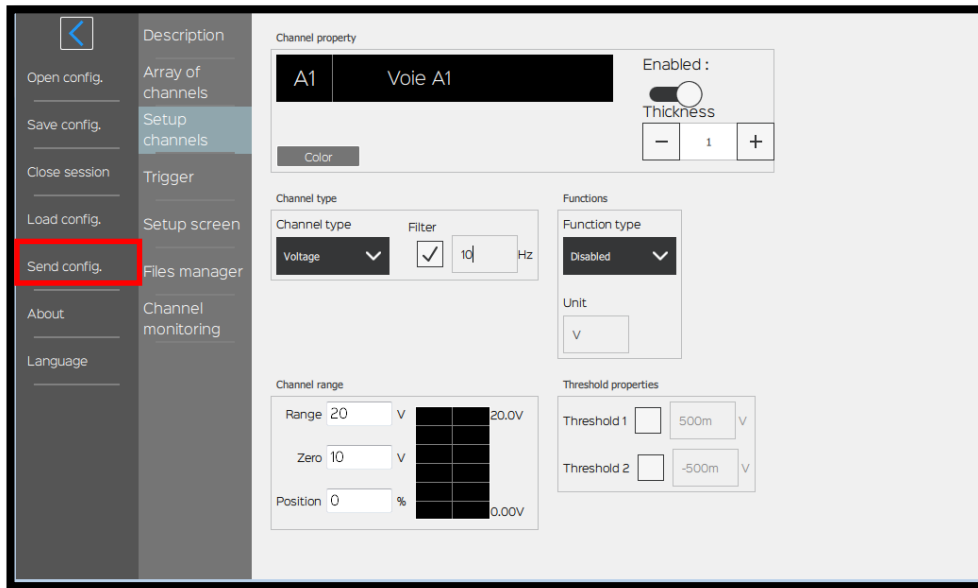


8- You can use a filter to remove the glitches, here: a 10 Hz filter:



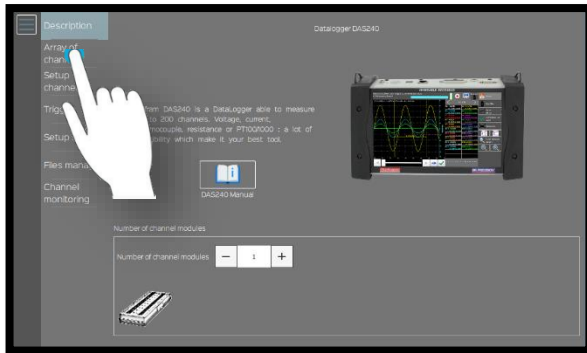


9- The first channel configuration is completed, press “Send config”. The signal can be visualized:

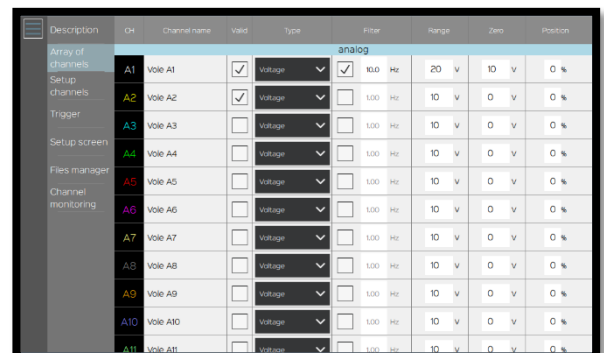
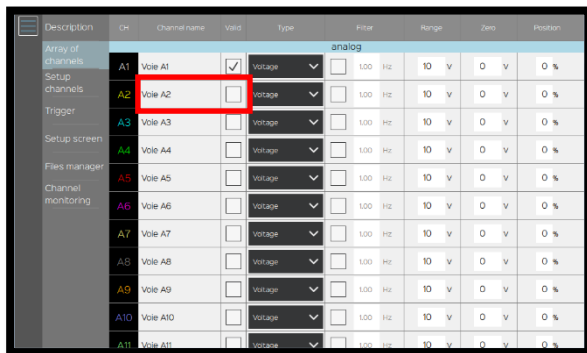


**II: Example K type thermocouple, setting the channel 2**

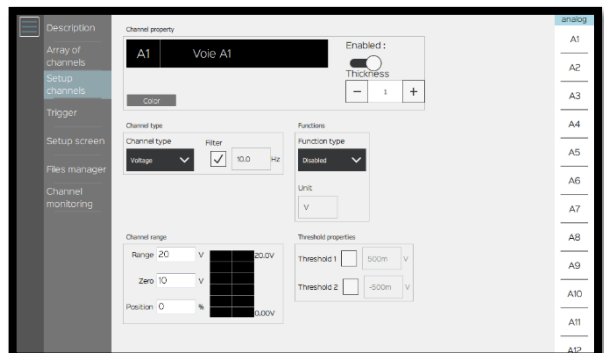
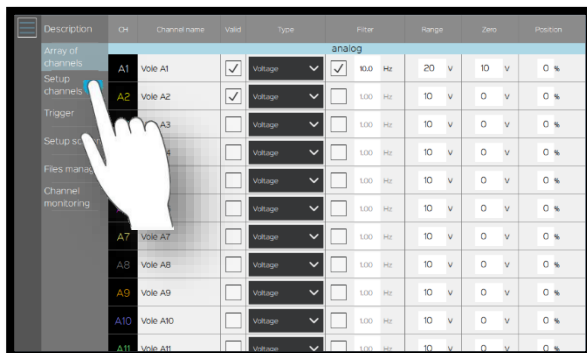
1- Go to the channels validation by pressing the “Channels and functions On / Off” button:



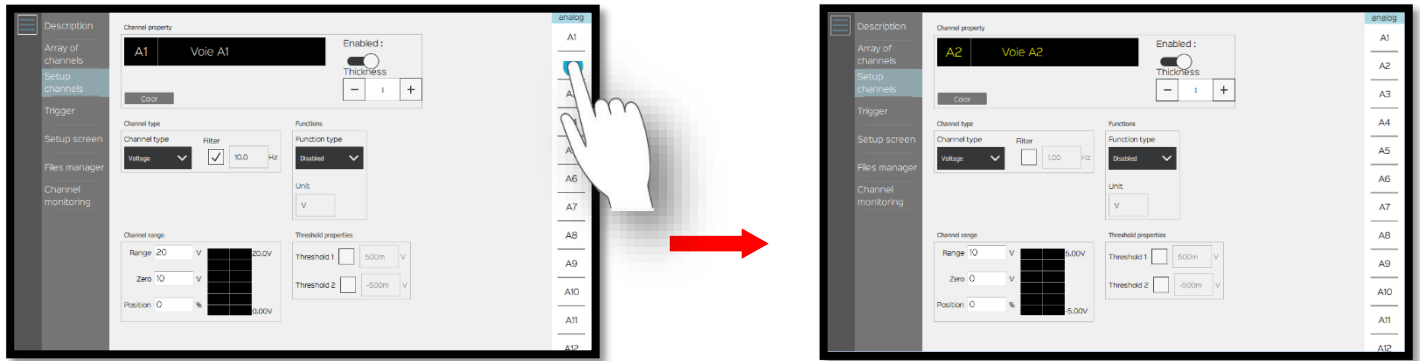
2- Select the channel. Here channel 2 :



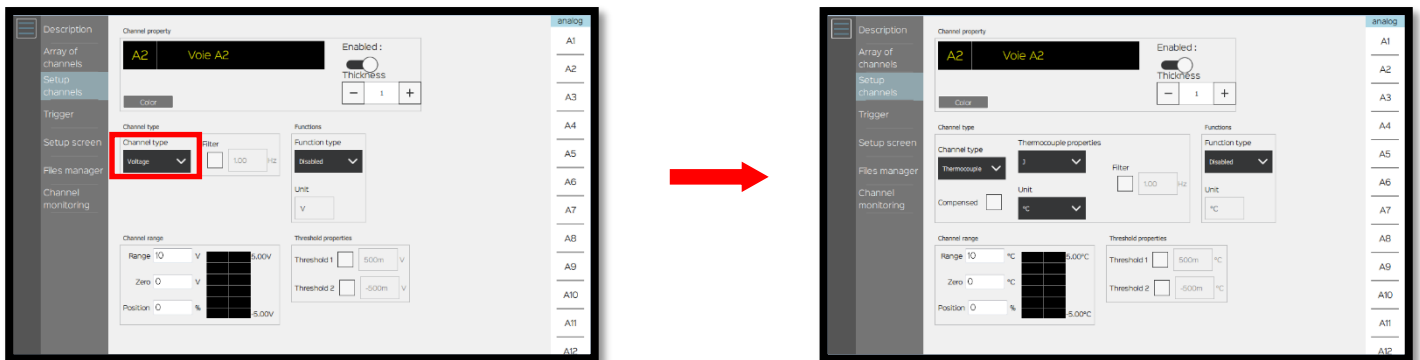
3- Go to the channel 2 configuration:



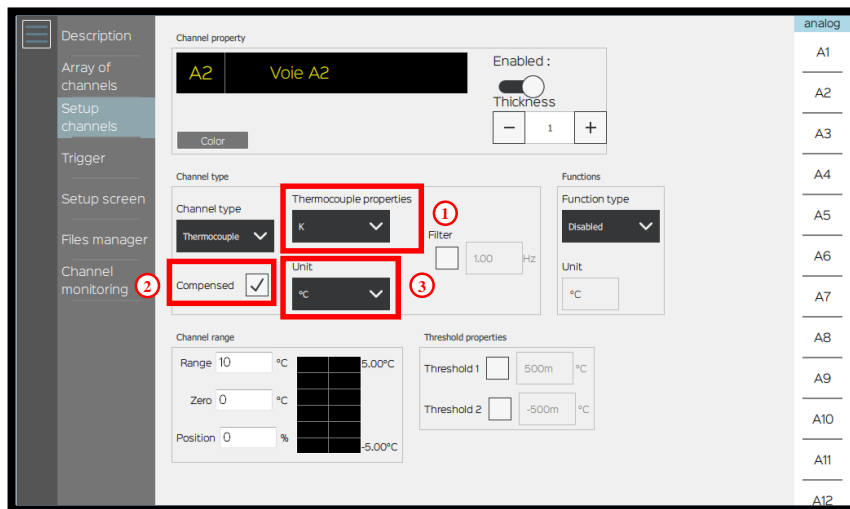
4- Go to the settings of the channel by pressing the channel to be set:



5- Choose the type of measurement, here we want to make a temperature measurement with a thermocouple:

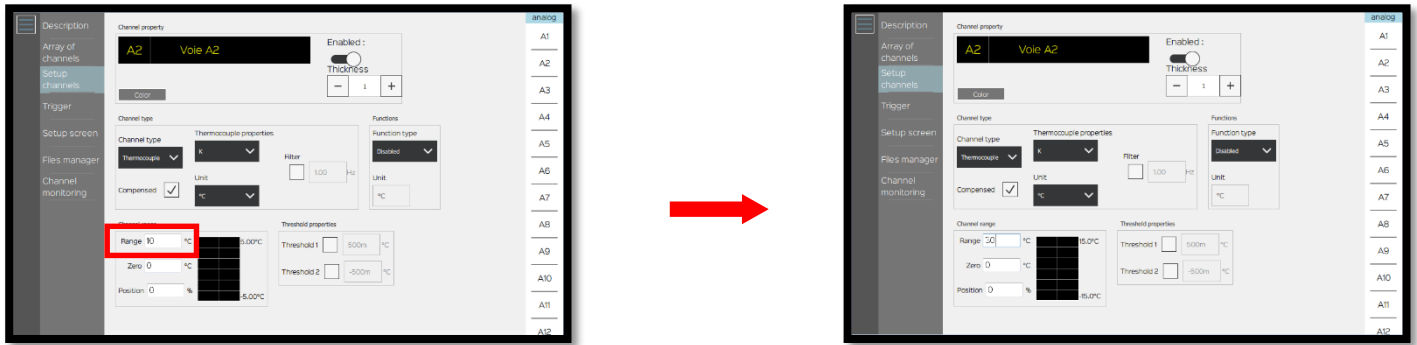


6- Set the type of measurement:



1. Choose the type of thermocouple, here: K type thermocouple
2. Select the compensation
3. Choose the unit, here Celsius degree (°)

7- Choose an adapted caliber, in this example we will use a 30°C caliber:



8- Set the zero's position, here we will use the value 15°C because we have a 30°C caliber and we want to visualize the ambient temperature. The range will be 0 to 30°C :



9- It is possible to use a filter to remove the glitches, here we will choose a 10 Hz filter:





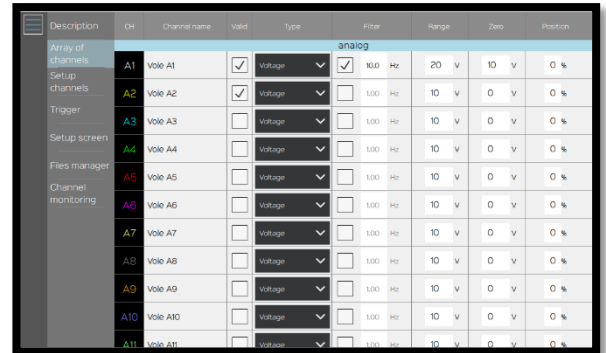
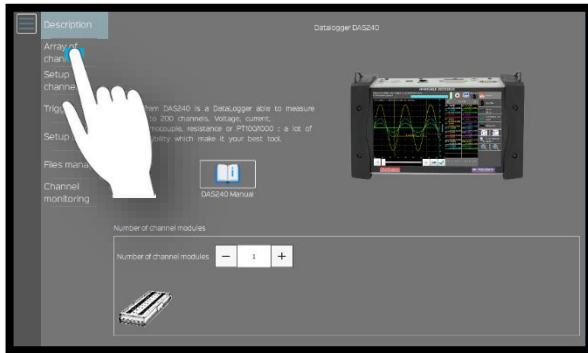
10- The first channel configuration is completed, press “Send config.” We can visualized our signal:



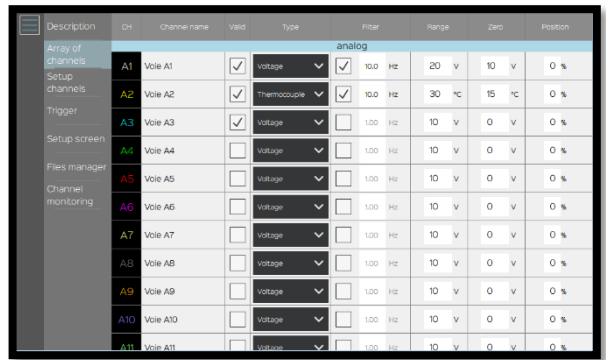
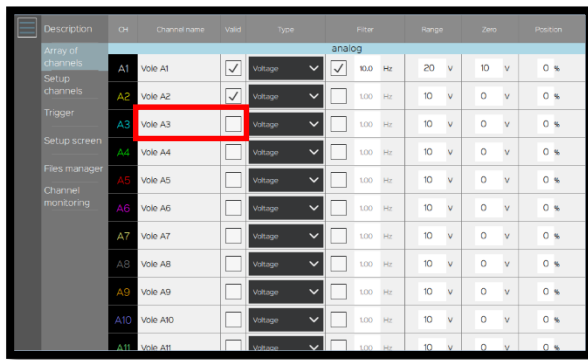


### III: Example current, setting the channel 3

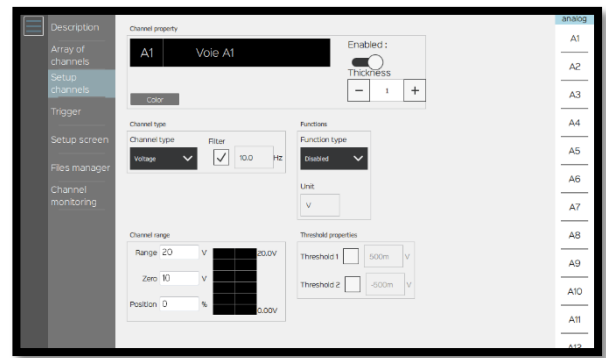
1- Go to the channels validation by pressing the “Channels and functions On / Off” button:



2- Select the channel. Here: channel 3:



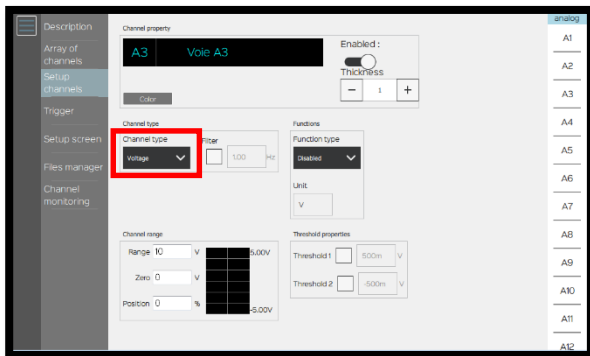
3- Go to the channel 3 configuration:



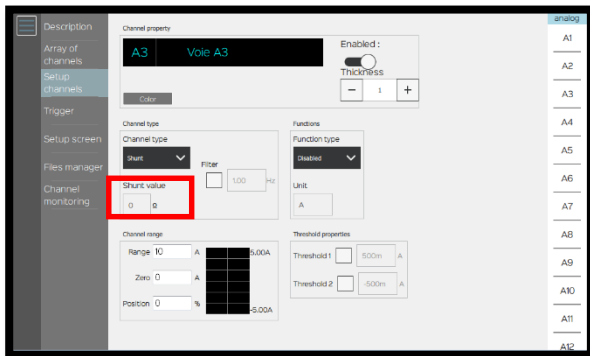
4- Go to the channel settings by pressing the channel to be set:



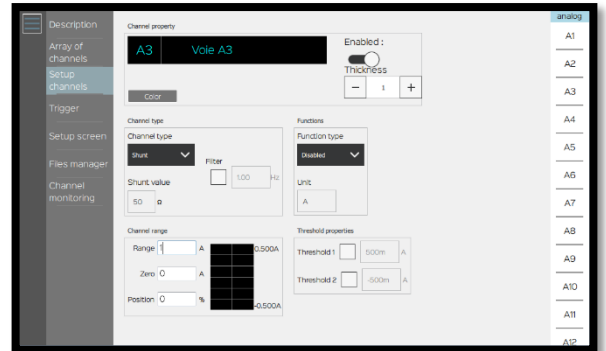
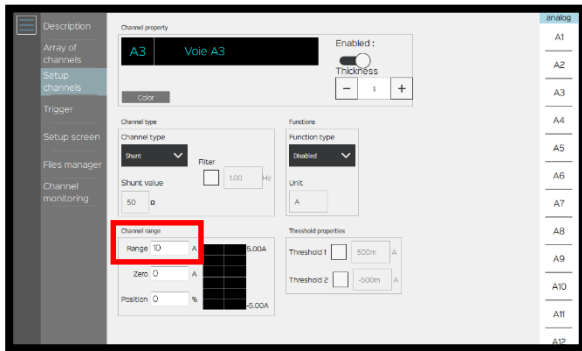
5- Choose the type of measurement, here we measure the current:



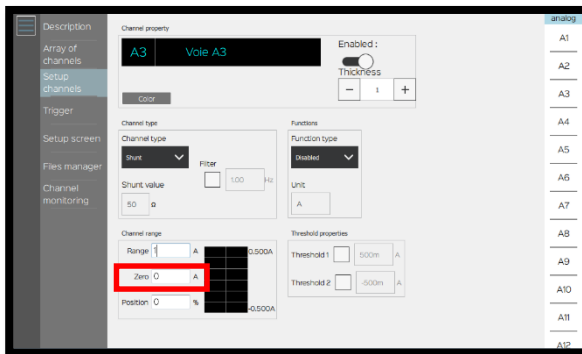
6- To measure the current we will use a SHUNT resistor. Choose its value, here: a 50 Ω resistor:



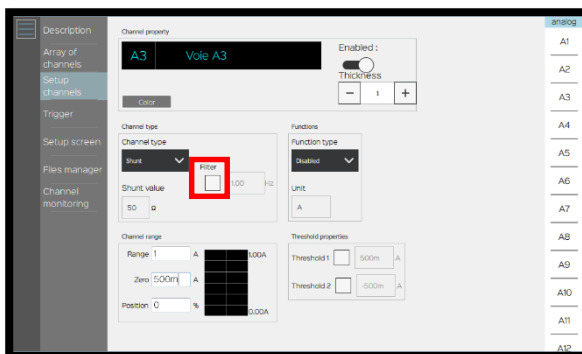
7- Choose an adapted caliber, in this example we will use a 1A caliber:

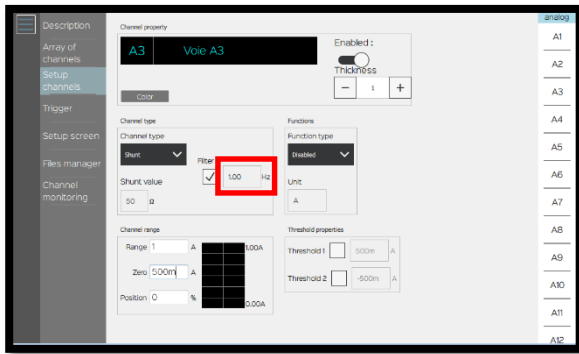


8- Set the zero's position, here we will use the value 500mAC because we have a 1A caliber and we want to visualize a positive current. The range will be 0 to 1A:



9- It is possible to use a filter to remove the glitches, here: a 10 Hz filter:





10- Channel 1 configuration is completed, the signal can be visualized:

