

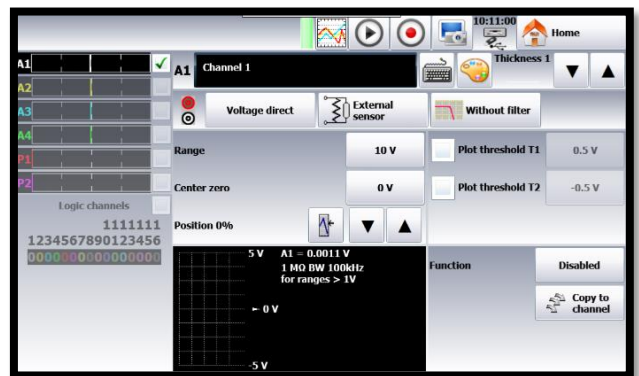
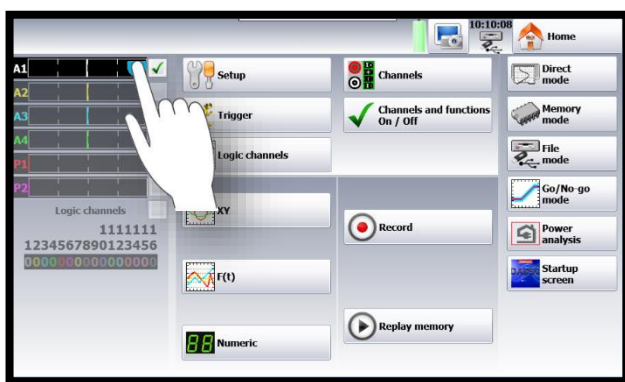
## SET A CHANNEL ON DAS30 / DAS50

On the recorders DAS30/50, you have the possibility to manage your acquisition channels. Indeed, it is possible to set the following setting: voltage, current, frequency, temperature with a thermocouple and a counter.

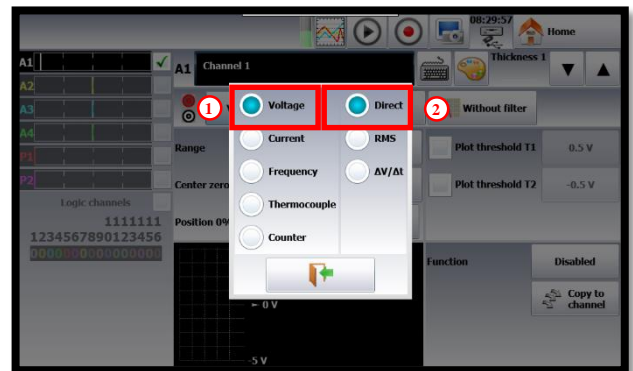
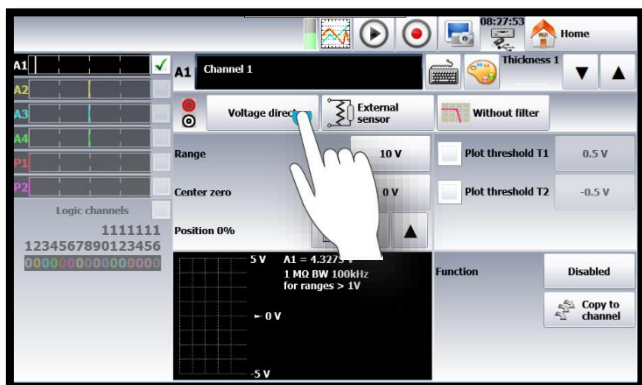
We are going to see how to manage an acquisition channel. For that we will take two examples: Firstly, we will configure the channel 1 with a variable voltage. Secondly, we will configure the second channel with K type thermocouple to measure an ambient temperature.

### I: Example K type thermocouple setting of the channel 1

1- Go to the setting of the channel 1 by pressing on the channel to be set :

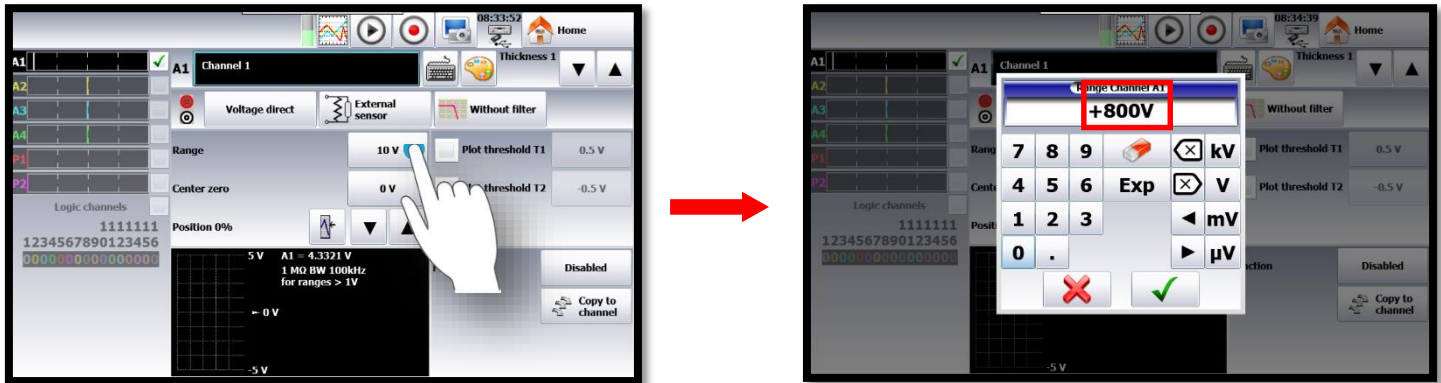


2- Manage the type of measurement:

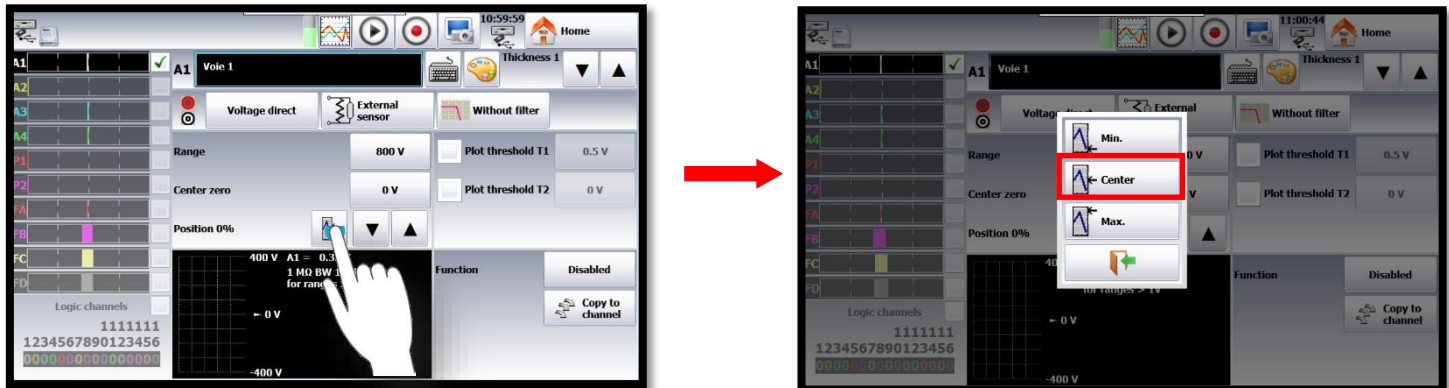


1. Choose the type of measurement, here we want to measure a "Voltage"
2. Specify the type of voltage, here we want a "Direct" voltage

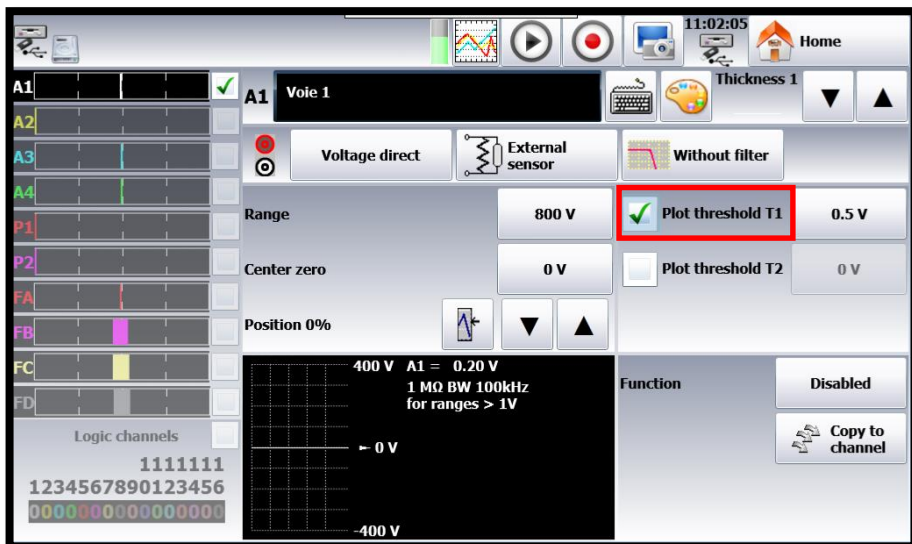
- 3- Choose an adapted caliber for this voltage, in here we will use an 800V caliber. Indeed, the efficient value of the signal is 230V, the max value is 320V, so the peak to peak value will be 640V:



- 4- Set the zero's position, here we will use the "center" position because we want to visualize the signal entirely:



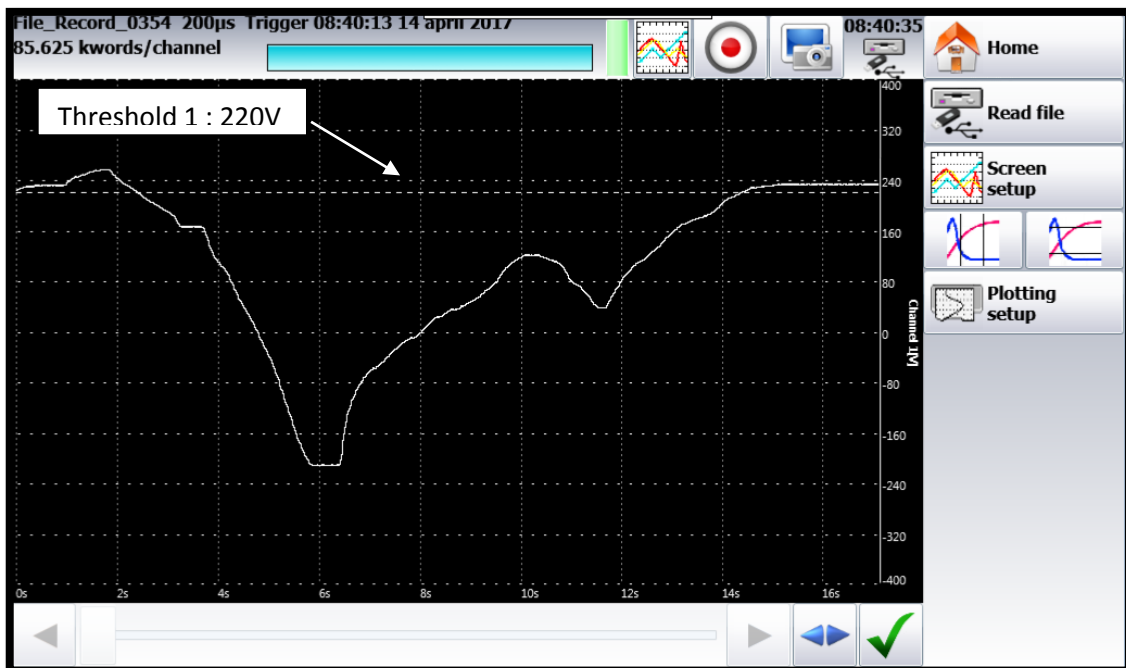
- 5- It is possible to use a threshold to activate the record. Here we want to start the record when the voltage becomes inferior at 220V: Choose « plot threshold T1 »:



6- Enter the trigger value, in our example we will use a 220V trigger:



7- The channel configuration voice one is realized and we can observe the signal:

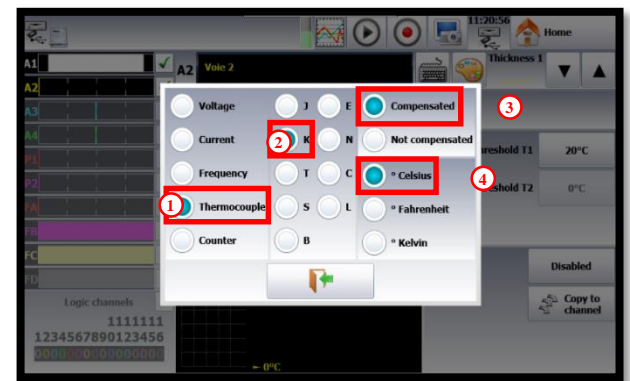


II: Example with the thermocouple

1- Go to the parameters to set channel 2 by pressing on the channel to be parameterized:

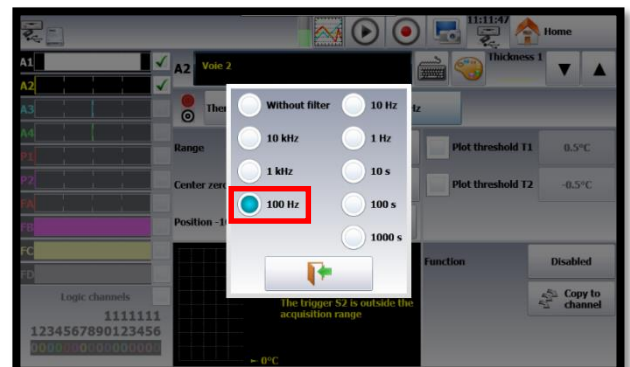


2- Choose the type of measurement :



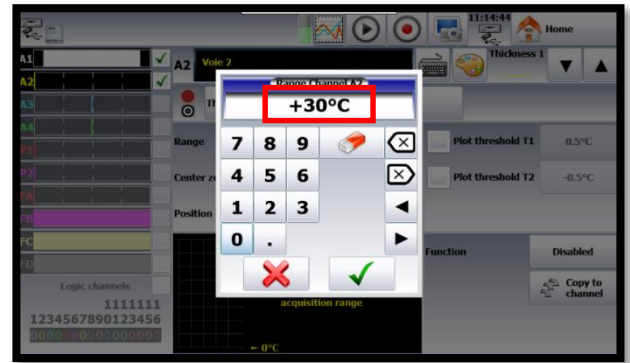
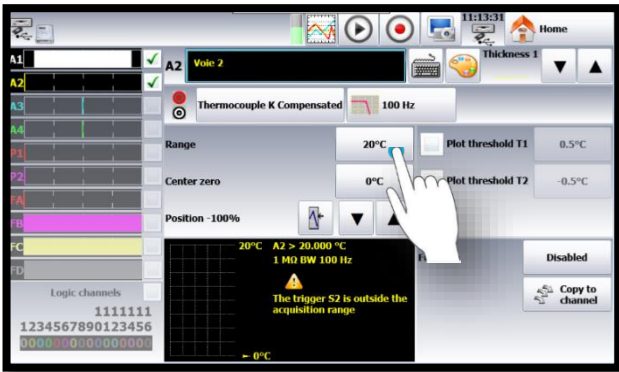
1. Select the type of measurement, here "Thermocouple"
2. Choose the type, here thermocouple "K"
3. Select a compensation
4. Choose the unit, here °Celsius

3- It is possible to use a filter to remove some defaults due to the environment, here we will use a 100Hz filter:

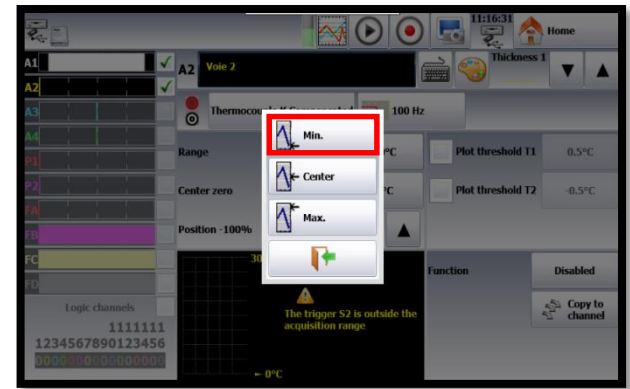
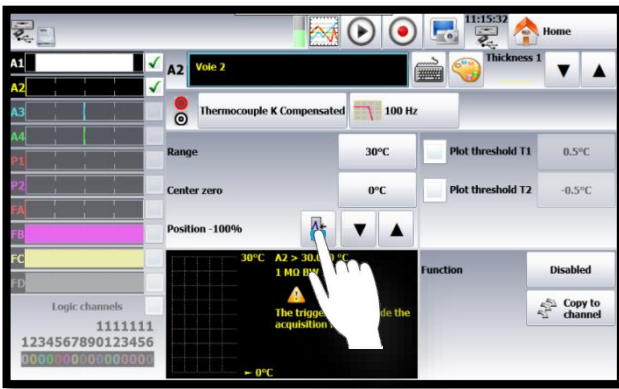




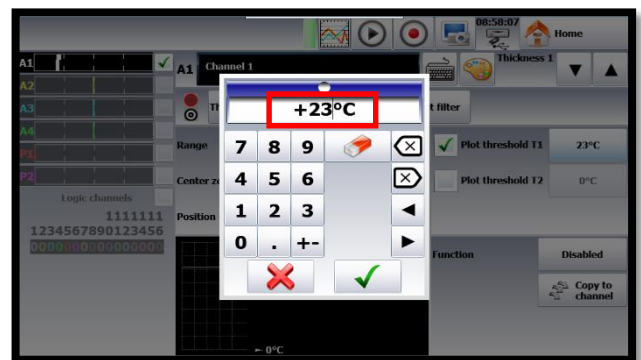
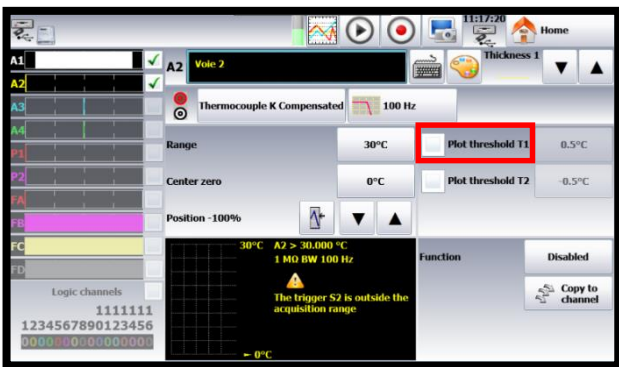
- 4- Choose an adapted caliber to the temperature measurement, for this example we will use a 30°C caliber because we have an ambient temperature :



- 5- Choose the zero's position, here we will use the position « Min » because the measured temperature won't be negative:



- 6- It is possible to set a threshold trigger. Here we will activate the record when the temperature will be superior to 20°C: Choose « Plot thresholdT1 » :



7- The configuration of the second channel is completed :

