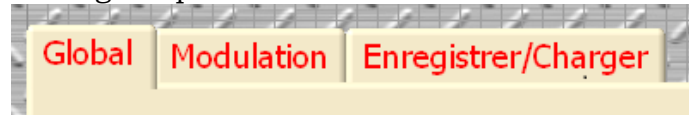# Instruction manual for GF467-E3.exe application

The application GF467-E3 is in the form of 3 tabs.
Tab 1: Settings: Functions, Frequency, Amplitude, Offset & Symmetry.
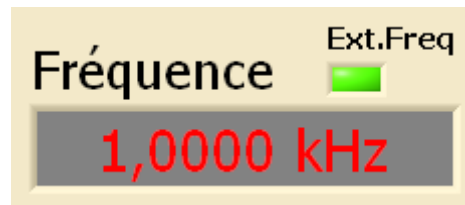Tab 2: Switches to frequency or amplitude modulation.
Tab 3: Storing and recalling the parameters.

Frequency settings:
The frequency can be entered directly in the display.
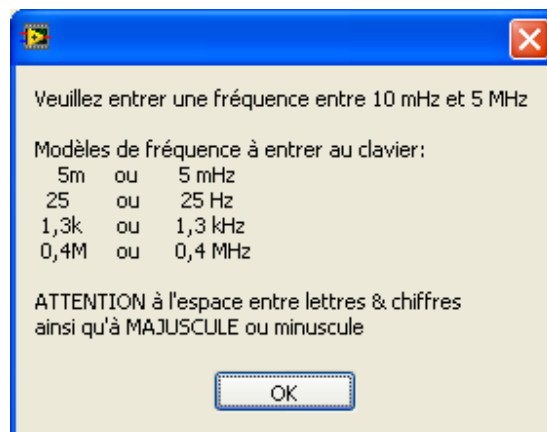Whatever the frequency, it's not necessary to select the range before.

The input is made in this following format:
 - Milli Hertz :   50 m or 50 mHz
 - Hertz :   25 or 25 Hz
 - Kilo Hertz :   1,3 K or 1,3 KHz
 - Mega Hertz :   0,4 M or 0,4 MHz

If the input doesn't respect the format, the following window will appear:
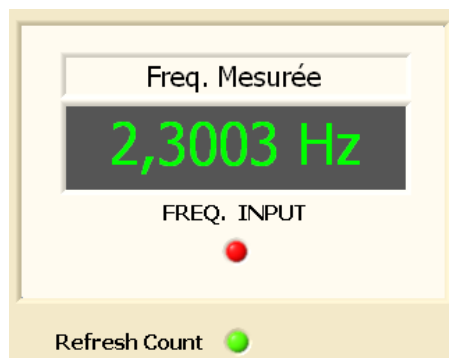
Use of the frequency meter :

When used as an internal frequency meter, the actual frequency is displayed and updates every 2 seconds.

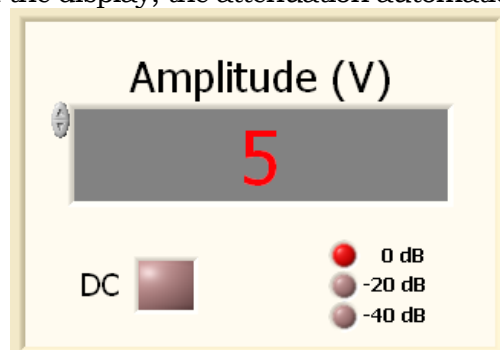To switch to external frequency meter, click the Ext button. Freq:

The external frequency is displayed in green and the "Freq input" LED changes colour to the rhythm of the refresh.
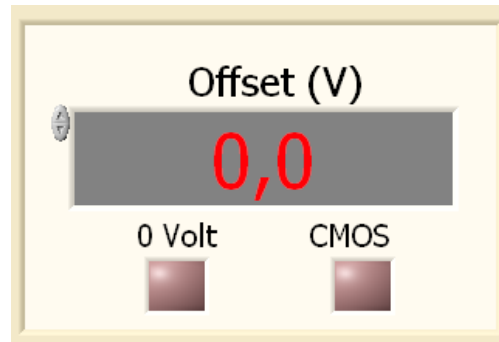

Amplitude settings:

As the frequency settings, it's not necessary to select the attenuation range before entering the amplitude.

Example: By entering 0.02 in the display, the attenuation automatically switches to - 40 dB.
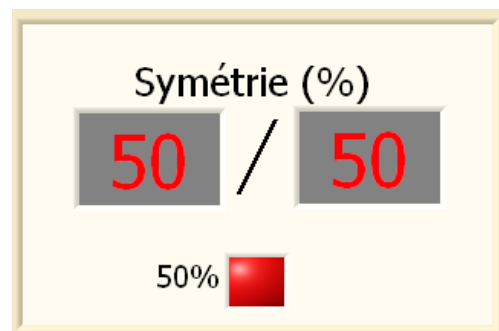

The DC button returns the amplitude to zero volt.

Offset settings:

The display has 2 buttons. The "O Volt" button has a similar function as the amplitude's "DC" button.
The CMOS button generates a voltage whose value is always positive in respect to the Volt zero. (Logic Circuits Control).
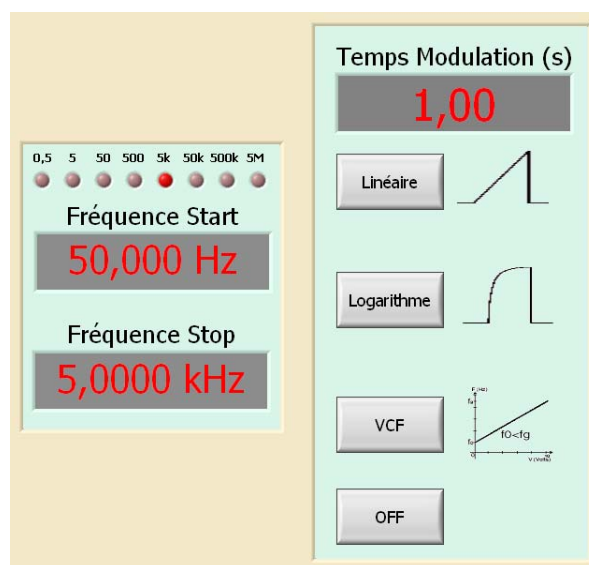
Symmetry settings:

Symmetry must be input in the left window, its complement to 100 can be entered in the right window.
The 50% button returns the median value to 50%.

Modulations Tab:
The centre and left sections are reserved to wobble (frequency modulation by a linear or logarithmic sawtooth).
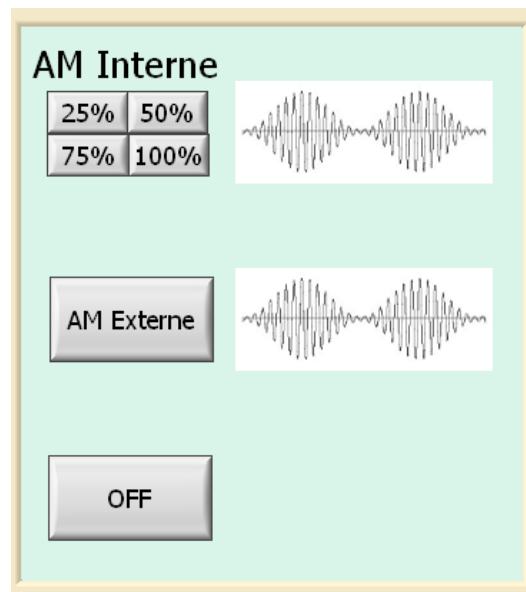

Le VCF (Voltage Controlled Frequency) corresponds to an external wobble.

The operating range is from 0 to +10 Volts for up-modulation, and 0 to -10Volts for a down-modulation.

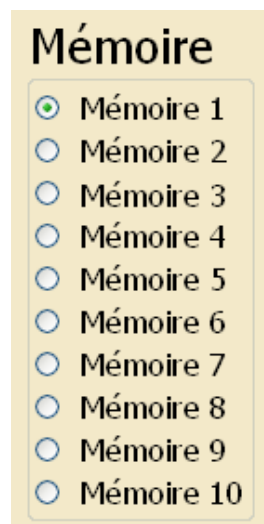The frequency range selected in the "Global" tab is found by default in the "Modulation" tab.
Here, we must to begin enter the frequency range, then Freq Start, and finally Freq Stop.
Before determining a Modulation time and choosing the linear or logarithmic slope.
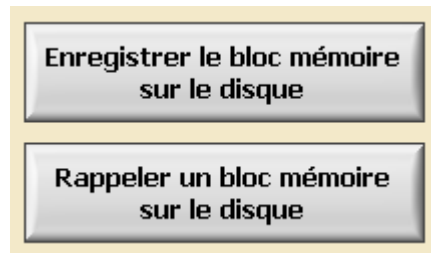The right is reserved to the amplitude modulation.

10Vpp is the optimum output voltage to comply with the index modulation.
For external AM, 1Vrms (2.83 Vpp) corresponds at 100% of Level of 10Vpp output.

Record/ Load tab:
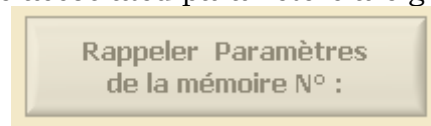The recording tab has 10 memory-blocks :

It's possible to record to the hard-disk and recall them:

Enregistrer le bloc mémoire
sur le disque

Rappeler un bloc mémoire
sur le disque

On start-up, by default, only memory 1 is loaded with the basic parameters:
1 KHz, Amp: 5 Vpp, Offset: OV, Sym: 50%, MOD: OFF.

When a memory is empty, the associated parameters are greyed out and the keypad too:

Rappeler Paramètres
de la mémoire N° :

When a configuration is recorded without modulation, the modulation parameters are greyed out.
When an External Frequency Meter configuration is registered, the Ext. Freq Led on the frequency display lights up.