

OPERATION

CAUTION:

The FG-2015 function generator outputs should never be connected to a signal injection point. Excessive voltage applied to the function generator output can cause internal damage to the function generator.

I. Setting Up The Instrument

1. Connect the FG-2015 function generator to the main supply with the included 7.5V AC adaptor. Alternatively, the FG-2015 can be power with a standard 9V battery.
2. Sliding the power switch to turn on the function generator.
NOTE: If the "battery low" LED lights, consider replacing the battery or power the FG-2015 with the AC adaptor.
3. The LCD display will turn on to show the current output frequency value. The respective Frequency Unit Display LED (i.e. MHz, KHz, and Hz) and Output Waveform Type LED (sine / triangle wave) will also light to indicate the current signal output waveform status.
NOTE: The square waveform of selected frequency is always being output on the square wave BNC output connector.

II. Frequency Setting

1. With the FG-2015 function generator power up, use the front panel keypad to key in the desire output frequency value.
NOTE: If the key in frequency is higher than the maximum allowed frequency, the function generator will automatically set the output frequency to the maximum allowed frequency.

* Example: Key sequence for setting the output frequency to 102.1 KHz



2. The 8-digit LCD will display the value of the key pressed. The output frequency will only change after one of the three frequency unit keys (i.e. "MHz", "KHz", and "Hz") is pressed at the end of frequency input sequence.
3. The "modify keys" can be used to change current frequency output.
 - i. Use the left/right modify key to select the desire digit on the LCD display; selected digit will flash to indicate it is being selected.
 - ii. Once a digit has been selected to be modify, use the up/down modify keys to increment/decrement the value on this digit
 - iii. Pressing the "SHIFT" key to finish modify.

* Example: Key sequence for changing the output frequency from 102.1000 KHz to 105.1000 KHz

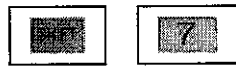


III. Waveform Type and Amplitude Setting

1. Output waveform type can be set by pressing the “SHIFT” key (the SHIFT key LED will light) follow by either “7/SINE” (for sine wave) or “8/TRI” (for triangle wave) key on the keypad. The corresponding waveform LED will light.

NOTE: The square waveform of selected frequency is always being output on the square wave BNC output connector. Changing the output waveform will only affect the output on the “SINE/TRI” output.

* Example: Change the output waveform to sine wave



2. Adjust the sine / triangle waveform output level with the amplitude control knob on the right side of the unit. The square waveform output is fixed at 5V peak-to-peak amplitude.

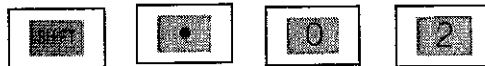
IV. STORE/RECALL Memory Setting

The FG-2015 series can store/recall up to 50 setup parameters (both frequency value and waveform type) with its built-in nonvolatile memory.

STORE

1. To store the current frequency value and waveform type, press the “SHIFT” key follow by the “./STORE” key.
2. Key in the memory number from “00” to “49”. This will store the frequency value and waveform type into this memory number.

* Example: Store current frequency value and waveform type into memory “02”



RECALL

1. To recall a stored frequency value and waveform type from memory, press the “SHIFT” key follow by the “0/RECALL” key.
2. Key in the memory number from “00” to “49” to recall the frequency value and waveform type stored in this memory number.

* Example: Recall frequency value and waveform type previously stored in memory “02”

