

LABORATORY 2

HOW TO USE AN OSCILLOSCOPE AND FUNCTION GENERATOR

OBJECTIVES

1. To interpret specifications for function generators.
2. To learn the operational controls of function generators.
3. To explain the concepts relating to grounding of oscilloscopes.
4. To produce a waveform on an oscilloscope graticule.
5. To analyze the effects of manipulating various typical oscilloscope controls.
6. To manipulate a waveform so as to optimize its appearance.
7. To evaluate a variety of basic oscilloscope waveforms.
8. To operate vertically-related oscilloscope controls.
9. To operate typical horizontally-related oscilloscope controls.

INFORMATION

Note: Actual lab procedure follows this information section.

1. Function generator

The Wavetek model FG3B Sweep/Function Generator is a precise low distortion instrument, capable of generating sine waves, triangular waves, square waves and ramp signals in the 0.2Hz to 2.0 MHz frequency range. The front panel of the FG3B is shown in Figure 2.1. The main features are shown in Figure 2.2 and explained in Table 2.1.



Figure 2.1 Front panel of Wavetek FG3B function generator.

A typical waveform generator is a non-ideal ac voltage source, and is represented symbolically as shown in Figure 2.3. The red lead of the generator's terminal connector is an active output and the black lead is connected to the common ground.

Function Generator Manual

D Keegan



Function Generator Manual:

Function Generator GFG-8210 GW INSTEK.,2000* *Model 401A Programmable Function Generator* OR-X Ltd,1989
Model SFG-2000/2100 Synthesized Function Generator GW INSTEK.,2000* , **Manuals Combined: Over 300**

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