

HP 8116A Function Generator Tutorial

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1 Introduction

The HP 8116A is a voltage waveform generator. It can be used to apply periodic voltage waveforms to a circuit (e.g., sinusoids, square waves, triangle waves, and pulses). You will use the function generators to supply time-varying input to circuits for transient or frequency analysis (e.g., to characterize a filter or an amplifier).

This tutorial starts with quick notes on the most vital information, so if you feel somewhat familiar with the function generator you can check over the quick notes and figure out the details yourself. The later sections include more detailed descriptions of the HPS116A interface.

2 Quick Notes (to get started fast)

- Make sure the “Disable” button is off (in the lower-right corner).
- Set parameters in AMP/OFS mode, not in HIL/LOL mode. If HIL/LOL are lit, push the buttons below HIL/LOL until AMP/OFS are lit.
- The AMP parameter sets the peak-to-peak amplitude, not the peak amplitude. See Figure 1.
- Delivered voltage varies with output load impedance. With an infinite load impedance at the output, the voltage amplitude delivered to the load will be double the panel setting. See Section 3.
- Choose parameters to adjust with the bottom middle buttons (below the FRQ, WID, etc. LEDs). Change the parameters with the top-right buttons.
- OFS is voltage offset for the waveform. You can use it to add a constant voltage (DC component) to the wave (e.g. if you want to have a cosine vary around 2 V).

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Ian Pickup



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