

How to Simply Generate a Pulse

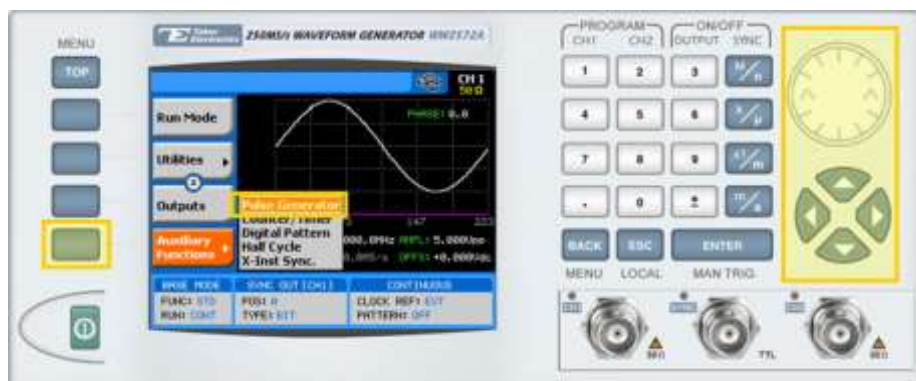
The Tabor family of Arbitrary Waveform Generators (AWGs) is designed for easy programming of pulses and pulse characteristics. This document will quickly guide you through the process of pulse generation.

The front panel of the AWG is depicted below.



➔ To generate a pulse using the front panel:

1. Press the **TOP** menu button.
2. Scroll down the menu buttons with the dial or the cursor keys and press the **Auxiliary Functions** menu button to display the Auxiliary Functions menu. Select **Pulse Generator** and press **ENTER**.

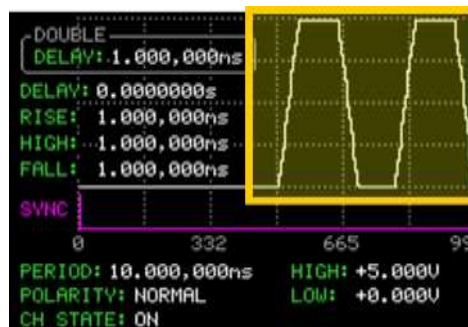


NOTE

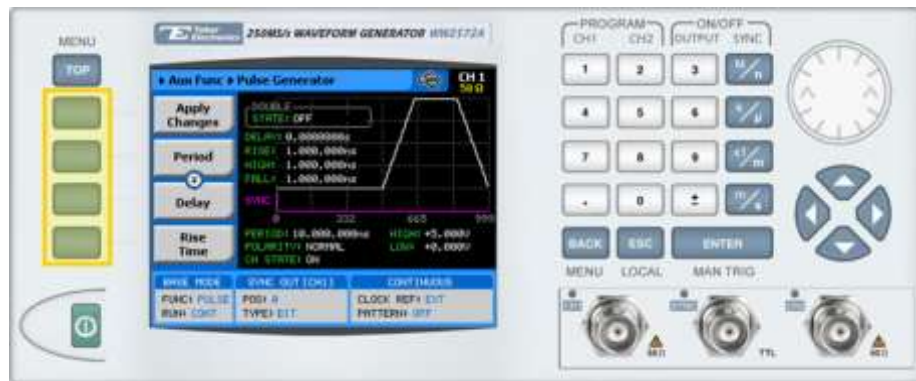
In the WW 5061/2 and WW 1071/2 models there is a special Firmware (1.67p) with the digital pulse option in which the digital pulse mode replaces the sequence mode.


3. Choose a menu button to modify any of the following attributes:

- **Apply Changes.** After modifying the pulse shape, press this button to make this shape available to the output connection.
- **Period.** The repetition period of the pulse waveform.
- **Delay.** The pulse delay is measured from the start of the pulse to the beginning of its first transition.
- **Rise Time.** The time during which the voltage rises from its low level to its high level.
- **High Time.** The time during which the voltage idles at its maximum level.
- **Fall Time.** The time during which the voltage drops from its high level to its low level.
- **High Level.** The high-level amplitude of the pulse.
- **Low Level.** The low-level amplitude of the pulse.
- **Polarity.** Choose from **normal polarity**, **inverted polarity** (pulse is inverted about its zero-amplitude baseline) and **complemented polarity** (pulse is inverted about its mid-amplitude axis).
- **Double State.** This button toggles between single and double pulse modes. When in double pulse mode, a double pulse symbol appears on the screen, as shown below:

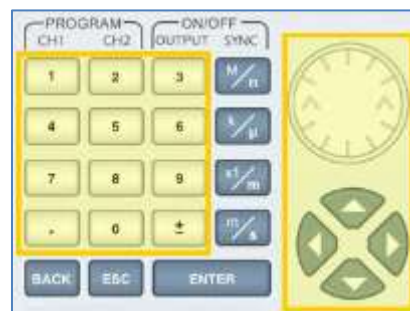


- **Channel State** (Not available in all WW models). Select the **OFF** state to freeze one channel, allowing you to program the other channel. The parameters allocated to the frozen channel are preserved.
- **Sync Position.** Used to program the position of the synch output (specified in waveform points) within the pulse cycle.

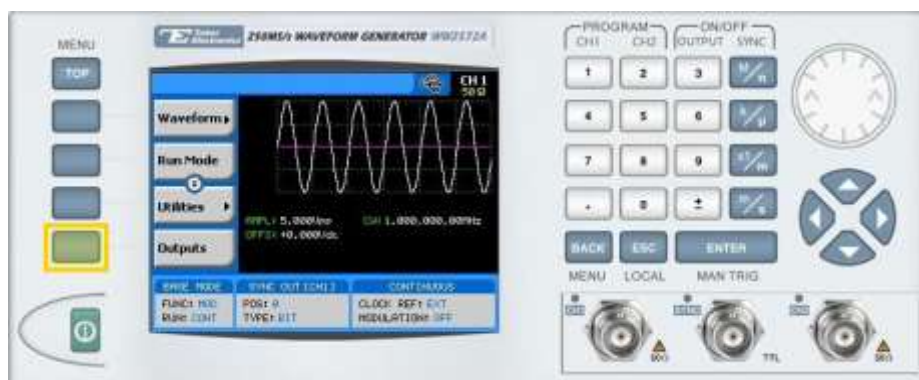

TIP

Whenever the  icon is displayed there are more attribute menu buttons to be shown below. Simply scroll down using the dial or cursor key.

- After selecting a numeric attribute for modification, modify the displayed value either by using the dial or the cursor keys, or by entering the value using the numeric keypad and suffix key. Press **ENTER** to save the modified parameter value.



- Press the **TOP** menu button to return to the main menu.
- Press the **Outputs** menu button in the control menu to configure the output settings.



7. Define the channels in the **Outputs** section as being **ON** or **OFF**, modifying the settings using the dial or the cursor keys:
 - To scroll between the fields, use the cursor keys.
 - To edit a field, select the field, and press **ENTER**. Use the keypad to enter the chosen value.
 - To toggle between **ON** and **OFF**, select the field **OUTPUT** and press **ENTER**. Use the cursor keys to choose the selected option.
 - Press **ENTER** again to exit the edit mode, and save the value.



TIP

You can quickly modify the output settings by selecting **CH1** or **CH2** on the keypad, and toggling the **OUTPUT** key to turn the channel on or off.



For More Information

To learn more about Tabor's solutions or to schedule a demo, please contact your local Tabor representative or email your request to info@tabor.co.il. More information can be found at our website at www.taborelec.com

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