
Digital trigger output

Revision History

| Date | Version | Description |
|------------|---------|-------------------------------|
| 25/01/2023 | 1.0 | First version of the document |



Introduction

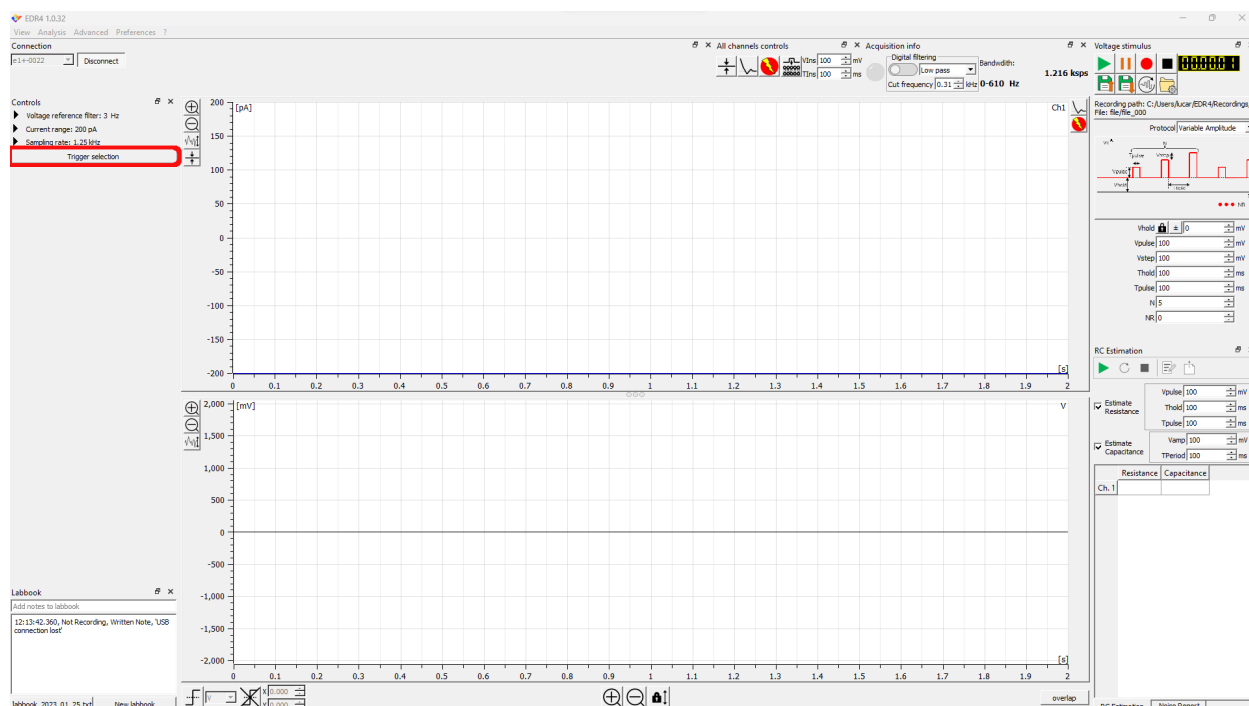
In this guide we'll provide a quick introduction to the usage of **Digital trigger output**.

Usually these triggers are used to synchronize your Elements' amplifier with other laboratory instrumentation.



Hands-on

The **Trigger Selection** button is located in the “Control” widget of EDR4 (the name of the control is “Trigger SEL” in EDR3), located by default in the upper left corner of the GUI



The current digital output trigger signal works with the following protocols:

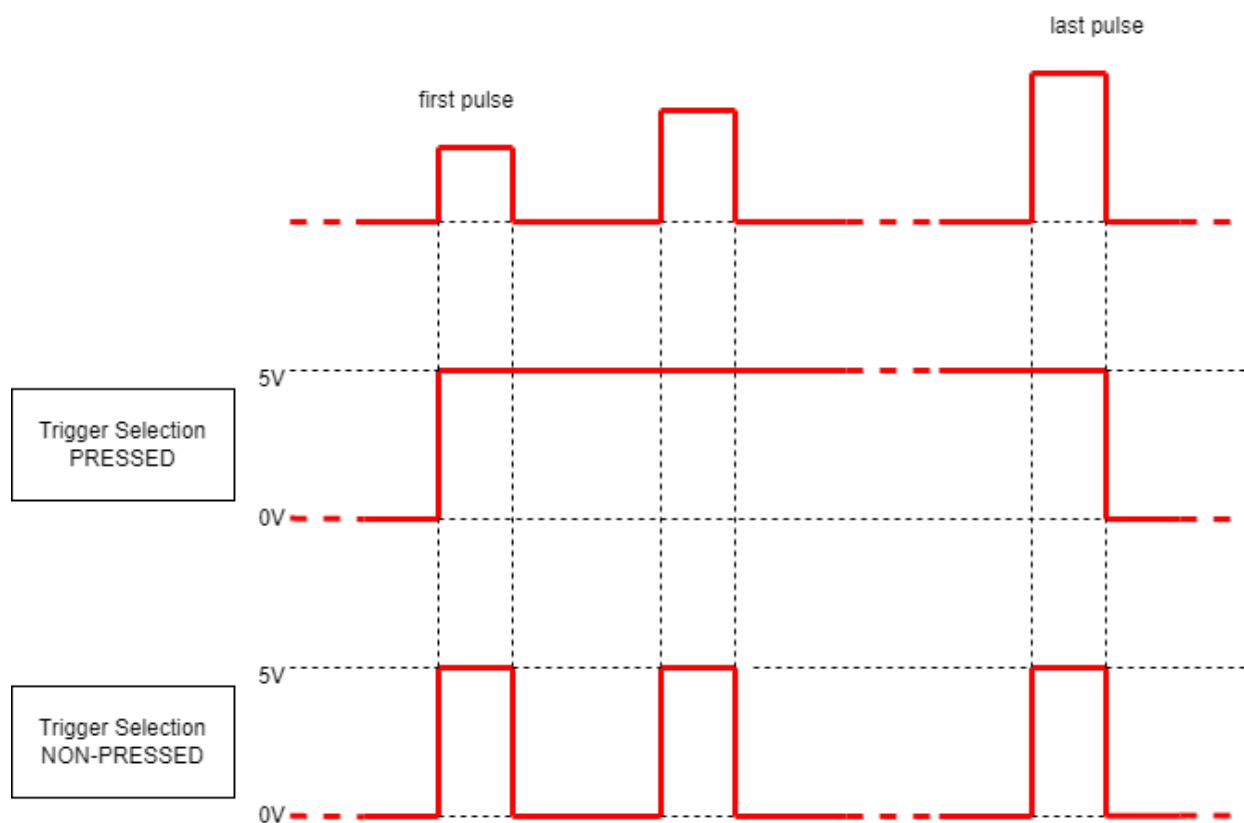
- [Variable Amplitude](#)
- [Variable Duration](#)

Check the “Connection diagram” from the webpage of your instrument to learn which pin outputs the digital output.



Variable Amplitude

The protocol will produce an output similar to the one in the following figure:



Please consult the list of [supported devices](#) to see whether your instrument is provided with this feature.



Supported Devices

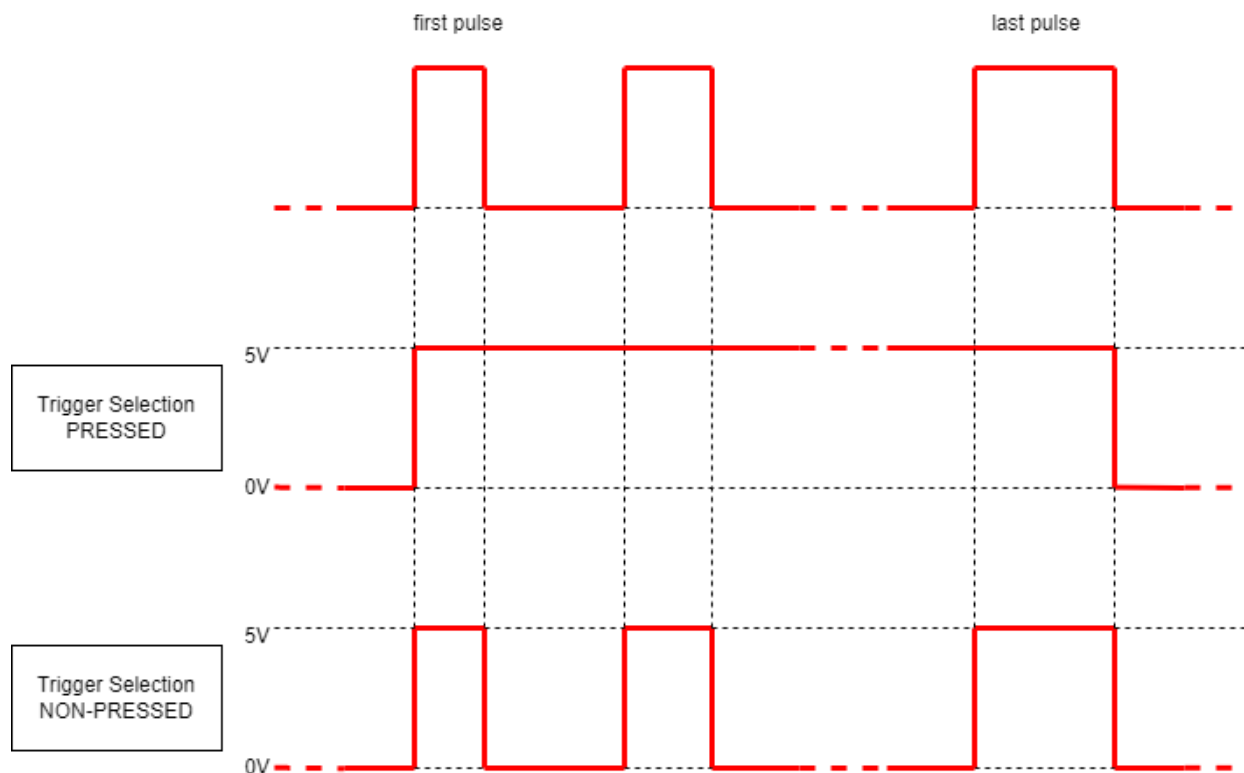
| Name | Firmware version¹ |
|-------------|-------------------------------------|
| e1b | any |
| eOne plus | any |
| eOne HC | any |

¹ The firmware version can be checked in the “device info” option of the “?” menu of the GUI



Variable Duration

The protocol will produce an output similar to the one in the following figure:



Please consult the list of [supported devices](#) to see whether your instrument is provided with this feature.



Supported Devices

| Name | Firmware version |
|-------------|-------------------------|
| e1b | any |
| eOne Plus | any |
| eOne HC | any |