USER MANUAL

PPG Control Software
for
Microsoft® Windows® 98 / ME / NT / 2000 / XP

Version 1.0 / Feb. 2002
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Introduction

The PPG control software is used to control (gate) external devices e.g. the HSE Universal Isolated Stimulus Output UISO. It can drive up to 4 TTL loads (4 UISOs) by software. It is possible to start the attached stimulator module UISO as free running stimulator or in a train mode where trains are used to stimulate a tissue. To open the menu below click in your data acquisition software on menu item Window - Stimulator. If you do not have a HSE data acquisition software click on START - PROGRAMMS There you will find a PPG button to start the PPG control software.

![PPG Control Software Screen](image)

This is an example menu with one PPG modules controlled

Stimulator settings

On your UISO you can set positive, negative or alternating stimulation mode. On a knob you can set the amplitude. The PPG only delivers the Basic Rhythm and the puls width W.

Connect your UISO via the BNC cable to the PPG module. BNC socket is on the rear of the UISO. Normal setting of the gate input is negative TTL pulse. So choose the negative BNC output (lower BNC) connector to connect to UISO. If you connect the PPG to another device check which TTL input (positive or negative pulses) is required to gate your unit.

![TTL Output Schematic](image)
**Menu description**

The menu of the PPG control software is very easy.

- **Here you set the basic Rhythm in ms**
- **Here the corresponding frequency in Hz is displayed**
- **Here you set pulse width which should be used**

**Train settings**

Depending on the settings in the menu you will get a train output like displayed below.

In the field “Train Counter” the number of trains can be defined. If you press start the defined number of trains are performed. If you set “Train-Counter” to 0 continuously trains are performed according to the settings of Train-Rhythm and Train-Width.