



Open and Close 3CH

Category: NMES/FES – manually triggered

Training of hand function.

Indication: Paralysis or muscle weakness of the upper limbs, e.g., after SCI, MS or stroke

Stimulation pattern: sequential activation

Stimulation cable: 5-channel

Active channels: Channel 1, Channel 2, Channel 3

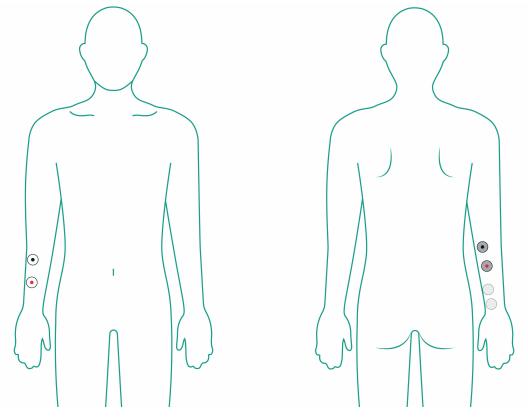
Solo mode: No

Placement of electrodes and stimulator

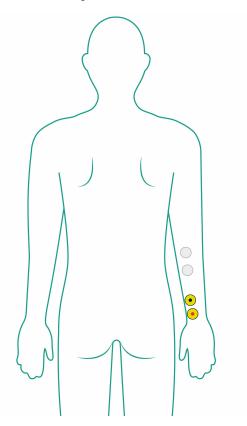
| Channel | Function | Electrode type |
|---------|-----------------------------|----------------|
| 1 | finger- and thumb extensors | bipolar, round |
| | | 1.25" (3.2cm) |
| 2 | finger flexors | bipolar, round |
| | | 1.25" (3.2cm) |
| 3 | thumb flexor | bipolar, round |
| | | 1.25" (3.2cm) |







 $\textbf{Electrode placement:} \ \text{channel} \ 1 - \text{finger-} \ \text{and thumb extensors and channel} \ 2 - \text{finger flexors}$



Electrode placement: channel 3 — thumb flexor



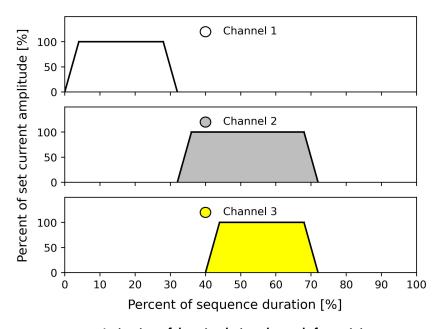


Current settings for stimulation stages

Training:

| Total duration | | 20:00:000 (min:sec:msec) | | | |
|----------------------------|----------|--------------------------|-----------|----------------|-------------------|
| Sequence durat | tion | 00:28:000 (min:sec:msec) | | | |
| Sequence mode ¹ | | manual triggered | | | |
| Channel | Maximal | Maximal | Frequency | Pulse | Pulse |
| | current | pulse width | | form | mode ² |
| 1 | 100.0 mA | 200 µs | 33.3 Hz | biphasic | sequential |
| | | | | (100 µs pause) | |
| 2 | 100.0 mA | 200 µs | 33.3 Hz | biphasic | sequential |
| | | | | (100 µs pause) | |
| 3 | 100.0 mA | 200 µs | 33.3 Hz | biphasic | sequential |

(100 µs pause)



Activation of the stimulation channels for training





¹Sequence modes

Automatic repetition: The stimulation sequence will be automatically repeated until the total duration of the stage is reached.

Motion triggered cyclic: The stimulator is placed on a limb and the cycle percentage will be estimated during cyclic movements like leg cycling or arm cranking.

The Stimulation is controlled as a function of the current cycle percentage and can be activated in up to three phases per active channel.

Motion triggered with threshold: The stimulation sequence will be triggered by an change in the inclination angle of a body segment on which the stimulator is placed. The

angle and direction of change (increasing or decreasing) must be defined.

Manually triggered: The stimulation sequence will be manually triggered by the therapist or patient using the Stim2Go app.

²Pulse modes

Sequential: The stimulation is activated in up to three phases within a sequence duration or motion cycle.

Always on: For a current amplitude larger than zero, the stimulation of a channel is permanently on over the entire sequence duration.

