



Open and Close 3CH

Category: NMES/FES – auto repeat

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

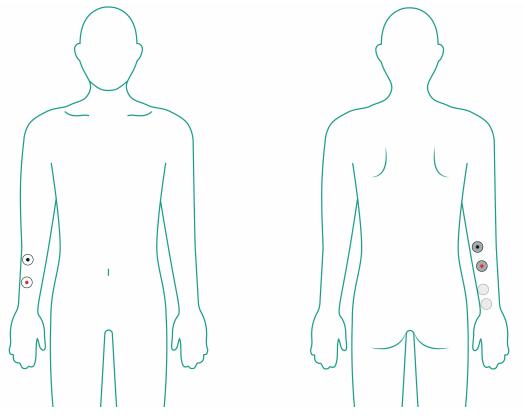
Solo mode: Yes

Placement of electrodes and stimulator

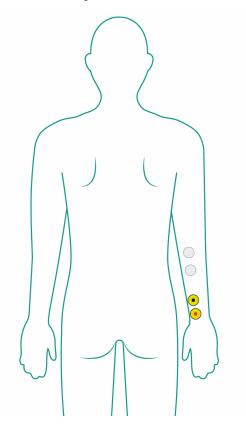
Channel	Function	Electrode type
1	finger- and thumb extensors	bipolar, round
		1.25" (3.2cm)
2	finger flexors	bipolar, round
		1.25" (3.2cm)
3	thumb flexor	bipolar, round
		1.25" (3.2cm)







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



Electrode placement: channel 3 — thumb flexor



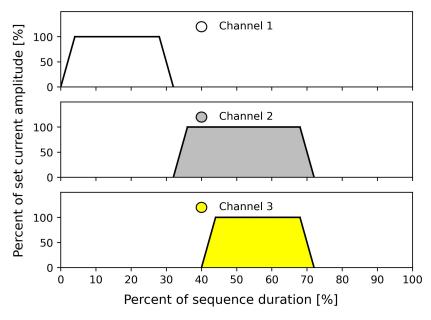


Current settings for stimulation stages

Training:

Total duration		20:00:000 (min:sec:msec)			
Sequence dura	tion	00:28:000 (min:sec:msec)			
Sequence mode ¹		automatic repetition			
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.

